

ANNUAL REPORT  
OF  
**THE MINES BRANCH**  
OF THE  
PROVINCE OF ALBERTA  
**1931**



EDMONTON:  
PRINTED BY W. D. McLEAN, KING'S PRINTER  
1932



Edmonton, Alberta,

February 15, 1932.

TO THE HON. R. G. REID,  
*Minister of Lands and Mines.*

SIR:

I herewith submit the report of The Mines Branch for the year ending December 31, 1931.

Respectfully submitted,

A. A. MILLAR,  
*Chief Inspector of Mines.*



ANNUAL REPORT OF THE MINES BRANCH FOR THE  
YEAR ENDING DECEMBER 31st, 1931

(A. A. MILLAR, *Chief Inspector*)

During the year there was produced a total coal output of 4,564,290 tons with a valuation of \$13,415,745, a reduction of over 1,200,000 from the 1930 output and the smallest output since the year 1915. Included in the total output there were some 981 tons produced by farmers under permits granted for the purpose of obtaining coal for their own use. There was a considerably larger tonnage produced by farmers, without permits or lease, of which tonnage we have no record. This, accompanied by the mild weather, and the railroad consumption having been considerably reduced through the lack of grain movement, together with the fact that improvements in the stoking and mechanism of locomotives has reduced the amount required for locomotive fuel, will largely account for the reduction in output.

Of the total output produced, 1,020,694 tons were sold for consumption in the Province of Alberta, 1,547,081 tons in other Provinces of Canada, 30,434 tons for consumption in the United States, 1,668,451 tons sold to railroad companies, 14,123 tons used making briquettes, 195,081 tons used under colliery boilers, 6,679 tons used by colliery railroads, 31,046 tons put to stock, and 89,465 tons put on the waste heap. The above tonnage shown as sold for use in Alberta includes the 981 tons produced by the farmers. In addition to the coal mined, there were 23,855 tons of shale and clay mined, from which 7,091,080 bricks and 2,825 tons of tile were manufactured.

There were in operation during the year 5 open pits producing shale and clay for the manufacture of brick, hollow tile, etc., also 316 coal mines; of the latter, 34 were opened, 22 reopened and 29 abandoned. In addition to the mines abandoned, there were 26 closed temporarily, leaving 271 mines in operation at December 31, 1931.

There were no changes in the staff of inspectors during the year. The control of the branch was transferred from the Executive Council to the Department of Lands and Mines.

There was a total of 410 persons examined during the year for certificates of competency as coal-miners, 324 being successful, making a total of 12,443 certificates issued to December 31st, 1931.

Samples of mine air have been taken at intervals by the inspectors from mines in the bituminous areas and forwarded to the Chemistry Branch of the Department of Mines, Ottawa, for analysis.

In addition, tests have been made with the Burrell and McLuckie gas detectors at the various mines throughout the Province.

Samples of rock dust have been collected from mines in the bituminous areas, and forwarded to the Provincial Analyst to be tested for silica content, the rock dust being used for rock-dusting the roadways.

Samples of coal have been collected from various mines by the inspectors and forwarded to the Scientific and Industrial Research Council at the University of Alberta.

Investigations of all serious and fatal accidents have been made by the district inspectors, and all inquests have been attended, in addition to the regular inspections at the various mines.

There was a slight increase in the number of fatal accidents during the year over the year 1930. In addition to the fatal accidents in mines, there occurred three fatal accidents at places where illegal mining was being carried on, and one man was asphyxiated in an abandoned mine which he had entered for the purpose of taking out material. A small boy was killed at one of the mines while trespassing and playing with a timber truck, which ran over him. In addition to the above fatal accidents, a very serious accident occurred to a farmer, who, along with others, was illegally mining coal in section 10, township 7, range 9, west of the 4th meridian, Forty Mile Coulee. These accidents are not included in the accidents from producing mines.

There were fifty-three prosecutions instituted for contraventions of The Coal-mines Regulation Act, made up as follows: 40 workmen, 7 officials, 6 operators, convictions being obtained in all but one case. In this case the decision of the magistrate has not yet been rendered.

There was a considerable drop in the use of purchased power during the year; this, no doubt, being caused through the decreased output, there having been only 16,918,625 k.w. hrs. used as against 25,003,506 k.w. hrs. used in 1930.

The distribution of purchased power was as follows: Big Valley area, 10,800 k.w. hrs., purchased from the Union Power Company of Drumheller, who also supplied 3,866,521 k.w. hrs. to the mines in the Drumheller area, and 192,470 k.w. hrs. to mines in the Carbon area.

In the Edmonton area there were 458,293 k.w. hrs. supplied to the mines by the Edmonton city power plant, and 178,240 k.w. hrs. supplied by the Calgary Power Company from the Ghost River hydro plant.

In the Lethbridge area there were supplied by the city of Lethbridge steam plant 597,464 k.w. hrs., which plant also supplied 8,560 k.w. hrs. to mines in the Taber area.

The Calgary Power Company supplied 11,550 k.w. hrs. to mines in the Gleichen area, also 3,850 k.w. hrs. to mines in the Camrose area.

The Medicine Hat city power plant supplied 32,000 k.w. hrs. to mines in the Redcliff area.

The mines in Crow's Nest area used 11,598,190 k.w. hrs., supplied by the East Kootenay Power Company from their hydro plant located at Bull River, B.C.

During the month of December, 1931, there were 9,905 persons employed, which was 1,294 less than were employed in December, 1930.

The use of mechanical coal conveyors and loaders underground is increasing, there being several conveyors in use in mines in the Crow's Nest, Saunders, Drumheller and Coalspur areas, the ones in use in the Crow's Nest being operated by compressed air, and in the other areas by electricity.

## ANNUAL PRODUCTION OF COAL FROM MINES IN THE PROVINCE OF ALBERTA

The following table is taken from a report prepared by the Dominion Bureau of Statistics and published in "Coal Statistics for Canada" for the year 1930:

Calendar Year	Short tons	Value
1886 .....	43,220	\$ 81,112
1887 .....	74,152	157,577
1888 .....	115,124	183,354
1889 .....	97,364	179,640
1890 .....	128,753	198,298
1891 .....	174,131	437,243
1892 .....	178,970	460,605
1893 .....	230,070	586,260
1894 .....	184,940	473,827
1895 .....	169,885	382,526
1896 .....	209,162	581,832
1897 .....	242,163	630,408
1898 .....	315,088	787,720
1899 .....	309,600	774,000
1900 .....	311,450	778,625
1901 .....	340,275	850,687
1902 .....	402,819	960,601
1903 .....	495,893	1,117,541
1904 .....	661,732	1,404,524
1905 .....	931,917	1,993,915
1906 .....	1,246,360	2,614,762
1907 .....	1,591,579	3,836,286
1908 .....	1,685,661	4,127,311
1909 .....	1,994,741	4,838,109
1910 .....	2,894,469	7,065,736
1911 .....	1,511,036	3,979,264
1912 .....	3,240,577	8,113,525
1913 .....	4,014,755	10,418,941
1914 .....	3,683,015	9,350,392
1915 .....	3,360,818	8,283,079
1916 .....	4,559,054	11,386,577
1917 .....	4,736,368	14,153,685
1918 .....	5,972,816	20,537,287
1919 .....	4,933,660	18,205,205
1920 .....	6,907,765	30,186,933
1921 .....	5,909,217	27,246,514
1922 .....	5,990,911	24,351,913
1923 .....	6,854,397	28,018,303
1924 .....	5,189,729	18,884,318
1925 .....	5,869,031	20,021,484
1926 .....	6,503,705	20,886,103
1927 .....	6,934,162	21,982,058
1928 .....	7,336,330	23,532,414
1929 .....	7,150,693	22,928,182
1930 .....	5,755,528	18,063,225
<b>Total.....</b>	<b>121,443,085</b>	<b>\$396,031,901</b>

NOTE: Production quantities and values prior to 1919 refer to sales and colliery consumption. For 1919 to 1930, the mine output figures are given.

THE MINES BRANCH

ANNUAL CONSUMPTION OF COAL IN THE DOMINION OF CANADA, 1902 TO 1930.

The following revised table is taken from the report issued by the Dominion Bureau of Statistics for the year 1930:

Year	Canadian*		Imported Coal Entered for Consumption			Total† Short tons	Per Capita
	Short tons	%	From U.S.A.		From Gt. Britain		
			Short tons	%			
1902	5,376,413	53.1	4,656,286	101,726	1,017,959	46.9	1,848
1903	6,005,735	47.3	6,520,931	184,593	6,678,450	52.7	2,212
1904	6,697,183	47.9	7,328,869	85,657	7,297,482	52.1	2,412
1905	7,032,661	49.4	7,538,738	68,500	7,215,446	50.6	2,341
1906	7,927,560	50.5	7,787,338	67,934	7,758,925	49.5	2,481
1907	8,617,352	45.0	10,388,697	54,325	10,549,503	55.0	2,947
1908	9,156,478	47.3	10,203,335	97,354	10,708,424	52.7	2,820
1909	8,913,376	47.9	9,805,253	67,671	9,741,826	52.1	2,682
1910	10,532,103	50.2	10,545,451	51,541	10,481,923	49.8	2,980
1911	9,822,749	40.5	14,510,129	48,963	14,423,949	53.5	3,865
1912	12,385,996	46.0	14,557,124	38,668	14,543,104	54.0	3,657
1913	13,450,158	42.6	18,145,769	37,855	18,132,387	57.4	3,885
1914	12,214,403	48.1	14,687,863	33,101	14,637,920	54.5	4,136
1915	11,500,480	48.1	12,450,796	15,098	12,466,212	51.9	3,490
1916	12,348,036	41.3	17,576,202	4,401	17,517,820	58.7	3,717
1917	12,318,603	37.2	20,848,009	9,451	20,810,132	62.8	4,049
1918	13,160,731	37.8	21,674,826	3,761	21,611,101	62.2	4,176
1919	11,611,168	40.3	17,292,913	344	17,236,269	59.7	3,402
1920	14,025,566	42.9	18,752,931	.....	18,668,741	57.1	3,788
1921	12,715,734	41.1	18,300,081	1,591	18,258,387	58.9	3,524
1922	13,044,352	50.2	12,255,555	765,080	12,962,189	49.8	2,909
1923	15,070,962	41.8	20,417,239	572,570	20,967,971	58.2	3,968
1924	12,529,353	42.8	16,405,344	317,112	16,714,143	57.2	3,100
1925	12,125,290	42.6	15,744,937	604,117	16,331,971	57.4	3,039
1926	15,086,296	47.7	16,204,405	287,299	16,565,555	52.3	3,371
1927	15,944,933	46.0	17,769,963	907,320	18,680,832	54.0	3,638
1928	16,487,807	48.9	16,515,149	682,755	17,200,043	51.1	3,488
1929	16,387,461	47.4	17,243,047	843,502	18,186,727	52.6	3,529
1930	14,052,671	42.8	17,323,818	1,144,861	18,763,924	57.2	3,303

\*The sum of Canadian coal mine sales, colliery consumption, coal supplied to employees, and the coal used in making coke, etc., less the tonnage of coal exported.

†Includes small tonnages from countries other than Great Britain and the United States. Deductions have been made to take account of foreign coal re-exported from Canada.



The following table shows the quantity of coke imported into Canada during the years 1929, 1930 and 1931 through ports in the Provinces, compiled from information received from the Dominion Bureau of Statistics:

Province	1929	1930	1931
Prince Edward Island .....	18	28	32
Nova Scotia .....	22,884	3,777	4,363
New Brunswick .....	1,760	1,430	825
Quebec .....	54,760	44,486	18,749
*Central Ontario .....	1,045,554	887,871	621,123
*Head of Lakes .....	78,207	105,944	73,859
Manitoba .....	21,012	14,235	12,228
Saskatchewan .....	45	68	.....
Alberta .....	20	.....	.....
British Columbia .....	2,593	3,201	2,095
<b>Total.....</b>	<b>1,226,853</b>	<b>1,061,040</b>	<b>733,274</b>

\*Correction of figures previously given.

Imports of Coke into Canada, by Countries, 1929, 1930, 1931.

Countries	1929	1930	1931
United States .....	1,195,068	1,048,209	727,586
Great Britain .....	28,054	12,732	5,462
Germany .....	3,731	99	226
Netherlands .....	.....	.....	.....
<b>Total.....</b>	<b>1,226,853</b>	<b>1,061,040</b>	<b>733,274</b>

Quantity of coal in tons, entered for consumption for each year since 1919 through ports in the Provinces of Ontario, Manitoba, Saskatchewan, Alberta and British Columbia.

BITUMINOUS COAL

Year	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Total Canada
1919	7,641,882	483,991	59,253	1,063,793	9,248,719	62,746	1,406	1,131	6,700	12,010,490
1920	10,261,337	571,879	111,957	1,391,709	12,336,903	43,547	535	697	13,128	15,902,632
1921	8,605,872	659,763	127,956	1,316,155	10,709,746	76,333	2,127	1,820	17,081	13,536,250
1922	7,424,171	445,019	68,082	1,517,350	9,454,522	74,348	1,484	1,147	13,966	11,563,467
1923	11,621,859	619,037	95,439	1,731,667	14,068,002	112,134	1,607	1,110	17,919	17,517,108
1924	8,763,876	403,388	70,259	1,500,525	10,737,848	143,607	2,422	1,209	25,049	12,619,082
1925	9,100,462	286,984	81,173	497,264	9,884,710	147,758	1,732	1,175	40,286	13,015,323
1926	10,531,095	199,908	83,182	965,105	11,696,108	149,374	1,887	1,515	32,992	13,802,242
1927	11,572,878	221,694	90,364	1,273,691	13,158,927	142,860	2,141	1,324	22,648	15,178,640
1928	10,539,408	194,718	103,594	1,481,228	12,318,948	147,902	2,536	1,360	18,682	13,966,183
1929	11,232,027	143,839	100,141	1,481,656	13,067,713	38,301	2,477	1,327	18,526(a)	14,585,275(b)
1930	10,421,748	165,439	70,403	1,297,939	11,955,589	24,398	1,316	1,351	8,886(c)	13,345,308(d)
1931	18,553,736	86,810	65,738	609,279	9,315,563	7,041	1,335	912	2,308(e)	10,347,280(f)

ANTHRACITE COAL

Year	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Total Canada
1919	2,977,913	119,234	559	346,442	3,444,148	12,306	.....	66	136	4,972,283
1920	2,943,134	69,206	2,648	226,476	3,241,464	17,509	206	517	75	4,912,664
1921	2,809,139	62,782	138	198,108	3,070,217	38,473	254	66	251	4,567,370
1922	1,586,324	21,507	12	36,018	1,644,461	14,715	231	.....	1,261	2,693,357
1923	3,061,779	28,229	429	54,329	3,144,766	55,356	2,291	.....	1,174	5,167,881
1924	2,599,568	4,775	237	84,513	2,689,098	34,222	1,720	.....	687	4,183,594
1925	2,203,231	37	170	50,731	2,254,049	34,396	702	30	246	3,798,744
1926	2,458,674	.....	56	60,310	2,519,494	17,990	464	.....	5,202	4,242,332
1927	2,123,515	.....	51	79,293	2,202,849	15,885	484	.....	3,812	4,063,619
1928	2,179,022	.....	42	57,494	2,236,558	10,130	579	.....	2,241	3,737,333
1929	2,246,063	352	303	52,369	2,299,087	9,180	367	.....	597	4,019,917(g)
1930	2,080,457	.....	224	45,241	2,125,922	8,323	367	.....	1,123	4,256,090(h)
1931	1,615,643	.....	.....	18,302	1,633,945	3,695	.....	.....	33	3,178,141(j)

- (a) Includes 11 tons imported in February, 50 tons in July, and 6 tons in August into the Yukon Territory.
- (b) Includes 115,368 tons of bituminous coal from Great Britain, also 76 tons of bituminous coal from Newfoundland. During 1929 there were 1,896 tons of lignite coal imported from the United States into Manitoba, 41 tons were imported from the United States into Saskatchewan, also 12,171 tons from the United States into British Columbia, making a total of 14,108 tons of lignite coal imported into Canada from the United States.
- (c) Includes imports into the Yukon Territory of 2 tons in April and 5 tons in June.
- (d) Consists of 13,199,076 tons imported from the United States, 146,199 tons imported from Great Britain and 33 tons imported from Newfoundland.
- (e) Includes imports into the Yukon Territory of 6 tons in March and 4 tons in July.
- (f) Consists of 10,224,982 tons imported from the United States, 122,298 tons imported from Great Britain.
- (g) Includes 728,458 tons of anthracite imported from Great Britain, 117,404 tons from Russia and 112 tons from Japan.
- (h) Consists of 2,955,954 tons imported from the United States, 996,127 tons imported from Great Britain, 11,480 tons imported from Germany, 291,407 tons imported from Russia, and 1,122 tons imported from French East Indies.
- (i) Consists of 2,236,423 tons imported from the United States, 876,364 tons imported from Great Britain, 60,762 tons imported from Germany, and 4,592 tons imported from French East Indies.

Tons of Coal entered for consumption for each month during the year 1931, through ports in the Provinces of Ontario, Manitoba, Saskatchewan, Alberta and British Columbia, compiled from information received from the Dominion Bureau of Statistics:

BITUMINOUS COAL

Month	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	Total Man., Sask., Alta., B.C., and Yukon	Total Canada
January	507,085	.....	3,235	.....	510,270	664	33	48	83	.....	828	546,263
February	531,135	.....	3,917	.....	535,052	691	32	216	275	.....	1,214	582,001
March	599,422	.....	5,166	.....	604,588	875	347	38	247	6	1,513	637,895
April	385,203	.....	4,109	8,854	394,166	594	128	113	102	.....	937	421,811
May	625,357	.....	4,292	68,987	698,636	792	97	.....	292	.....	1,181	838,111
June	672,771	.....	6,037	41,775	720,583	721	268	119	80	.....	1,188	850,261
July	759,980	.....	6,489	6,051	772,520	617	214	113	270	4	1,218	910,551
August	895,419	37,782	6,478	199,497	1,137,876	388	130	116	38	.....	672	1,267,337
September	899,678	48,728	5,351	116,038	1,069,795	633	120	112	86	.....	951	1,225,764
October	953,035	.....	6,985	87,273	1,047,293	299	71	37	115	.....	522	1,113,129
November	953,189	.....	8,451	66,233	1,027,873	410	.....	.....	536	.....	996	1,109,566
December	771,512	300	7,028	14,571	793,411	357	95	.....	124	.....	576	844,591
Total.....	8,553,736	86,810	65,738	609,279	9,315,563	7,041	1,535	912	2,298	10	11,796	10,347,280

(a) Consists of 10,224,982 tons imported from the United States, 122,298 tons imported from Great Britain.

ANTHRACITE COAL

Month	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	Total Man., Sask., Alta., B.C., and Yukon	Total Canada
January	190,043	.....	.....	.....	190,043	700	.....	.....	.....	.....	700	245,119
February	184,368	.....	.....	.....	184,368	613	.....	.....	.....	.....	613	247,745
March	129,261	.....	.....	.....	129,261	570	.....	.....	.....	.....	570	176,239
April	88,555	.....	.....	.....	88,555	370	.....	.....	.....	.....	370	116,304
May	141,510	.....	.....	.....	141,510	43	.....	.....	.....	.....	43	324,805
June	130,856	.....	.....	5,933	136,839	22	.....	.....	.....	.....	22	348,157
July	138,991	.....	.....	.....	138,991	.....	.....	.....	.....	.....	.....	334,661
August	90,930	.....	.....	.....	90,930	36	.....	.....	.....	.....	36	230,854
September	104,029	.....	.....	.....	104,029	140	.....	.....	.....	.....	140	281,124
October	153,913	.....	.....	.....	153,913	450	.....	.....	33	.....	483	382,102
November	145,979	.....	.....	10,317	156,296	291	.....	.....	.....	.....	291	303,956
December	117,208	.....	.....	2,002	119,210	460	.....	.....	.....	.....	460	179,875
Total.....	1,615,643	.....	.....	18,302	1,633,945	3,695	.....	.....	33	.....	3,728	3,178,141

(b) Consists of 2,236,423 tons imported from the United States, 876,364 tons imported from Great Britain, 60,762 tons imported from Germany, and 4,592 tons imported from French East Indies.



## THE MINES BRANCH

## MINERAL PRODUCTION OF ALBERTA, 1930 AND 1931

Prepared in the Mining, Metallurgical, and Chemical Branch, Ottawa, Canada.

	1930		*1931	
	Quantity	Value	Quantity	Value
Gold fine, ounces .....			195	\$ 4,031
Silver fine, ounces .....			29	9
Bituminous sands, tons..	2,067	\$ 8,268	1,015	4,060
Coal, tons .....	5,755,528	18,063,225	4,562,004	13,339,816
Natural gas, M. cu. ft...	20,748,583	4,929,226	18,482,355	4,384,694
Petroleum, brls. ....	1,398,160	4,780,696	1,408,058	4,025,000
Clay products and other structural materials:				
Cement, brls. ....	525,289	1,144,160	626,483	1,286,080
Clay products .....		997,685		529,714
Lime, tons .....	5,136	49,525	2,856	25,185
Sand and gravel, tons	1,626,989	433,221	1,336,872	353,787
Stone, tons .....	7,903	21,736	7,366	18,407
<b>Total.....</b>		<b>\$30,427,742</b>		<b>\$23,970,783</b>

\*Subject to revision.

Particulars with reference to coal-mining industry in the Province of Alberta during the year ending December 31, 1931:

## SUMMARY OF STATISTICS

Number of short tons of coal produced .....	4,564,290
Number of short tons of Briquettes produced .....	15,102
Number of short tons of Shale produced .....	23,855
Number of Coal-mines in operation during the year.....	316
Number of Shale Pits in operation during the year .....	5
Number of Mines opened during the year.....	34
Number of Mines re-opened during the year .....	22
Number of Mines abandoned during the year .....	26
Number of Mines closed but not abandoned .....	29
Number of Mines in operation at December 31, 1931.....	271
171 mines or 56.25% of the total operating produced 1.31% of the output.	
58 mines or 19.08% of the total operating produced 2.53% of the output.	
12 mines or 3.95% of the total operating produced 1.81% of the output.	
32 mines or 10.52% of the total operating produced 18.10% of the output.	
17 mines or 5.59% of the total operating produced 26.25% of the output.	
4 mines or 1.31% of the total operating produced 10.52% of the output.	
9 mines or 2.96% of the total operating produced 32.8% of the output.	
1 mine or .32% of the total operating produced 6.68% of the output.	
Average number of persons employed below ground .....	5,969
Average number of persons employed above ground .....	2,101
Number of separate accidents causing loss of life .....	15
Number of deaths caused by accidents above ground .....	1
Number of deaths caused by accidents below ground .....	15
Number of serious accidents above ground .....	6

## ANNUAL REPORT, 1931

15

Number of serious accidents below ground .....	69
Number of slight accidents above ground .....	14
Number of slight accidents below ground .....	59
Total purchased electrical power (kilowatt hours) .....	16,918,625
Number of persons prosecuted under The Coal-mines Regula- tion Act .....	53
Number of Provisional Certificates (overmen) issued in 1931..	178
Number of Certificates of Competency as Coal-miners issued in 1931 .....	324
Number of Third Class Certificates issued in 1931 .....	49
Number of Second Class Certificates issued in 1931 .....	10
Number of First Class Certificates issued in 1931 .....	3
Number of Mine Surveyors' Certificates issued in 1931.....	1
Total number of Third Class Certificates issued to December 31, 1931 .....	1,147
Total number of Second Class Certificates issued to December 31, 1931 .....	400
Total number of First Class Certificates issued to December 31, 1931 .....	231
Total number of Interchange First Class Certificates issued to December 31, 1931 .....	5
Total number of Mine Surveyors' Certificates issued to Decem- ber 31, 1931 .....	184
Total number of Certificates of Competency as Coal-miners issued to December 31, 1931 .....	12,443

In the following tables the short ton of 2,000 lbs. is used in all cases:

Year	Output in tons for N.W.T. (Alta. & Sask.)	Output in tons Alberta
1901 .....	346,649	.....
1902 .....	510,674	.....
1903 .....	622,939	.....
1904 .....	782,931	.....
1905 .....	.....	811,228
1906 .....	.....	1,385,000
1907 .....	.....	1,834,745
1908 .....	.....	1,845,000
1909 .....	.....	2,174,329
1910 .....	.....	3,036,757
1911 .....	.....	1,694,564
1912 .....	.....	3,446,349
1913 .....	.....	4,306,346
1914 .....	.....	3,821,739
1915 .....	.....	3,434,891
1916 .....	.....	4,638,604
1917 .....	.....	4,863,414
1918 .....	.....	6,148,620
1919 .....	.....	5,022,412
1920 .....	.....	6,908,923
1921 .....	.....	5,937,195
1922 .....	.....	5,976,432
1923 .....	.....	6,866,923
1924 .....	.....	5,203,713
1925 .....	.....	5,883,394
1926 .....	.....	6,508,908
1927 .....	.....	6,936,780
1928 .....	.....	7,334,179
1929 .....	.....	7,147,250
1930 .....	.....	5,755,911
1931 .....	.....	4,564,290

PARTICULARS OF WORK DONE IN SHALE MINES IN THE  
PROVINCE DURING 1931

Output of Shale in tons, used for making bricks .....	23,855
Average number of days worked each month .....	15
Average number of men employed each month .....	105
Total number of shifts worked .....	20,852
Explosives used (lbs.)—40% Dynamite .....	2,669
Black Powder .....	35
Number of shots fired—fuse .....	1,706
Total number of bricks made .....	7,091,080
Total number of bricks lifted from stock .....	1,367,553
Total number of bricks put to stock .....	618,193
Bricks sold for use in:	
Alberta .....	3,326,440
British Columbia .....	988,500
Saskatchewan .....	2,596,960
Manitoba .....	902,700
Ontario .....	13,000
United States .....	13,000
Total.....	7,840,600
Total hollow tile made, in tons .....	2,825
Total hollow tile put to stock, in tons .....	13
Hollow tile, in tons, sold for use in:	
Alberta .....	1,328
Saskatchewan .....	840
Manitoba .....	644
Total.....	2,812







How the total output of DOMESTIC Coal from the Province was disposed of by areas during 1931:

	Sold for Consumption in					Used under Colliery Boilers	Used by R.R.	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total output for year including waste put to stock and lifted from stock or waste.
	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario							
Ardley .....	7,620	100	1,989	320	.....	.....	.....	42	317	15	85	10,578
Big Valley .....	2,866	.....	31	.....	.....	.....	.....	.....	447	.....	.....	3,344
Brooks .....	4,874	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4,905
Camrose .....	28,017	.....	13,482	308	.....	.....	.....	.....	654	.....	1,890	41,194
Carbon .....	51,128	1,419	12,612	16,827	102	.....	.....	565	2,329	583	.....	85,824
Castor .....	23,021	.....	160	.....	.....	.....	.....	.....	880	.....	.....	24,162
Champion .....	11,799	.....	.....	.....	.....	.....	.....	.....	314	.....	.....	12,113
Drumheller .....	195,015	48,886	571,725	207,684	18,925	33	9,622	1,586	2,138	2,002	1,905	1,070,548
Edmonton .....	332,702	419	24,074	3,334	74	.....	.....	225	1,425	75	.....	370,252
Gleichen .....	3,233	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	3,235
Halcourt .....	2,042	.....	.....	.....	.....	.....	.....	.....	15	41	.....	2,080
Lethbridge .....	130,371	32,870	124,705	11,808	1,597	.....	.....	197	13,347	12,240	.....	358,746
Magrath .....	1,748	.....	.....	.....	.....	.....	.....	.....	207	.....	.....	1,749
Milk River .....	3,672	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3,879
Parksville .....	1,395	.....	.....	.....	.....	.....	.....	.....	35	30	.....	1,616
Parkana .....	52,896	8,331	12,458	6,504	244	.....	.....	360	2,194	2,484	.....	92,916
Redcliff .....	17,319	190	6,521	192	.....	.....	.....	597	.....	.....	.....	23,119
Rochester .....	225	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	225
Sixsmith .....	84	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	84
Sheerness .....	14,542	.....	3,407	.....	.....	.....	.....	.....	746	.....	.....	20,134
Tabor .....	8,717	137	1,201	438	.....	82	.....	.....	1,609	.....	365	11,863
Tofield .....	18,736	32	51,986	28,208	.....	.....	.....	.....	30	.....	.....	101,792
Wetaskiwin .....	188	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	188
Whitecourt .....	43	.....	.....	.....	.....	.....	.....	.....	11	.....	.....	54
Total.....	912,403	92,284	824,851	275,621	20,942	33	19,781	18,009	20,412	17,447	4,245	2,246,544

How the total output of SUB-BITUMINOUS Coal was disposed of during 1931 by areas:

	SOLD FOR CONSUMPTION IN						Said to Railroad Companies	Total Sales	Used under Colliery Boilers	Used by Colliery R.R.	Used making Briquettes	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total output for year including put to stock and waste
	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	Quebec										
Coalspur .....	12,619	32,549	11,250	36,666	3,784	.....	217,823	314,691	24,206	4,460	.....	2,855	54,691	2,465	370	398,068
Pekisko .....	617	.....	.....	.....	.....	.....	.....	617	.....	4,460	.....	46	256	46	.....	873
Pincher .....	2,198	.....	.....	.....	.....	.....	.....	2,198	44	.....	.....	119	52	.....	.....	2,413
Prairie Creek .....	4,553	4,337	2,754	5,444	451	.....	16,412	33,951	2,022	.....	.....	.....	502	389	563	35,523
Saunders .....	6,540	817	13,233	6,118	1,603	67	2,293	30,671	3,899	.....	.....	348	.....	406	.....	34,512
Total.....	26,527	37,703	27,237	48,228	5,838	67	236,528	382,128	30,171	4,460	.....	3,368	55,501	3,306	933	471,389
<b>BITUMINOUS</b>																
Cascade .....	2,809	400	280	2,278	33	.....	130,473	136,273	15,514	381	14,123	1,424	91	1,509	.....	166,297
Crow's Nest .....	30,883	39,287	48,869	62,115	108	.....	718,099	910,014	30,886	684	.....	6,010	13,461	8,728	357	951,970
Mountain Park .....	40,238	1,936	4,837	53,146	115	.....	433,536	533,808	27,067	.....	.....	.....	.....	.....	.....	560,875
Nordegg .....	7,334	.....	.....	1,373	.....	.....	149,815	159,022	8,197	.....	.....	2,235	.....	2,239	.....	167,215
Total.....	81,764	41,623	53,986	118,912	256	.....	1,431,923	1,739,117	81,664	1,065	14,123	9,869	13,552	12,476	357	1,846,357











Amount of COAL sold during the years 1915 to 1931 inclusive for consumption in:

Year	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	Quebec	United States	To Railroads	Total
1915	2,129,130	54,860	695,898	64,816	.....	.....	25,047	.....	2,969,751
1916	2,866,670	86,413	1,007,765	97,265	.....	.....	61,092	.....	4,119,205
1917	2,813,413	76,397	1,139,771	249,372	.....	.....	93,081	.....	4,372,534
1918	3,440,154	101,189	1,372,439	511,168	.....	.....	133,276	.....	5,558,865
1919	2,991,110	95,461	1,115,329	314,290	629	.....	121,212	.....	4,637,710
1920	1,647,202	198,850	1,310,146	600,962	13,911	30	153,610	.....	6,371,266
1921	1,415,861	116,089	1,294,441	495,388	9,398	.....	133,823	2,516,555	5,488,704
1922	1,443,942	107,920	1,371,249	520,518	21,573	102	105,514	2,023,204	5,647,109
1923	1,882,788	108,326	1,223,454	553,649	52,334	.....	83,557	3,110,121	6,514,219
1924	1,431,327	114,186	1,189,788	510,407	16,325	.....	39,142	1,618,574	5,573,431
1925	1,440,032	117,037	1,297,658	509,655	16,325	.....	40,507	2,183,716	5,573,431
1926	1,325,290	127,858	1,296,181	591,267	28,331	.....	48,216	2,705,440	6,170,032
1927	1,508,089	187,028	1,428,904	612,542	74,559	221	48,216	2,785,765	6,563,168
1928	1,409,475	282,198	1,511,141	605,125	52,265	.....	44,265	3,054,239	6,938,708
1929	1,446,555	286,840	1,455,213	588,647	55,647	.....	51,625	2,923,327	6,758,075
1930	1,234,382	237,385	1,221,542	541,537	29,784	.....	44,291	2,120,237	5,419,190
1931	1,020,694	171,610	905,674	442,761	27,036	100	30,124	1,668,451	4,268,660

NOTE: Previous to 1920 Railroad Coal was included in Sales in Alberta.

## THE MINES BRANCH

Coal produced by years from 1927 to 1931 inclusive:

## DOMESTIC COAL FIELD

Areas	1927	1928	1929	1930	1931
Ardley .....	8,102	6,725	3,344	2,852	10,578
Big Valley .....	20,180	9,089	4,622	4,451	3,344
Brooks .....	4,001	5,666	6,633	7,992	4,905
Camrose .....	53,486	43,905	41,107	35,443	41,194
Carbon .....	91,271	110,286	111,308	91,027	85,824
Castor .....	36,483	34,100	31,583	24,759	24,162
Champion .....	8,054	8,755	10,498	12,441	12,113
Drumheller .....	1,460,655	1,487,483	1,574,766	1,433,350	1,070,543
Edmonton .....	513,256	452,671	476,702	417,310	370,252
Gleichen .....	3,277	3,289	2,844	3,055	3,235
Halcourt .....	604	636	475	436	2,080
Lethbridge .....	695,139	795,855	731,149	545,227	358,746
Magrath .....	463	598	910	969	1,749
Milk River .....	2,087	1,104	829	1,357	3,879
Pakowki .....	1,801	1,917	1,735	2,092	1,615
Pembina .....	177,387	158,907	162,271	119,983	92,916
Redcliff .....	29,119	25,697	27,283	25,180	25,119
Rochester .....	.....	.....	.....	140	225
Sexsmith .....	.....	.....	.....	.....	34
Sheerness .....	26,499	22,672	20,440	21,674	20,134
Steville .....	123	.....	.....	.....	.....
Taber .....	72,329	58,950	22,173	12,303	11,863
Tofield .....	152,375	149,012	155,059	111,932	101,792
Wainwright .....	.....	.....	18	.....	.....
Wetaskiwin .....	259	159	.....	105	188
Whitecourt .....	110	119	.....	12	54
No Area Assigned .....	111	605	.....	.....	.....
Total.....	3,357,171	3,378,200	3,385,749	2,874,090	2,246,544

## SUB-BITUMINOUS COAL FIELD

Coalspur .....	504,987	645,370	565,991	515,296	398,068
Pekisko .....	4,312	2,189	4,493	4,225	873
Pincher .....	2,173	3,213	1,823	2,318	2,413
Prairie Creek .....	.....	.....	6,713	15,425	35,523
Saunders .....	83,718	89,726	89,088	66,067	34,512
Total.....	595,190	740,498	668,108	603,331	471,889

## BITUMINOUS COAL FIELD

Brule .....	130,611	75,203	.....	.....	.....
Cascade .....	290,212	283,587	299,428	212,953	166,297
Crow's Nest .....	1,443,066	1,639,343	1,552,966	1,133,914	951,970
Mountain Park .....	883,913	975,584	993,404	726,777	560,875
Nordegg .....	236,617	241,764	247,595	204,846	167,215
Total .....	2,984,419	3,215,481	3,093,393	2,278,490	1,846,357

ANNUAL REPORT, 1931

Total amount of DOMESTIC COAL by areas during each month:

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley .....	620	464	347	35	235	619	710	602	851	1,521	2,274	2,300	10,578
Big Valley .....	401	259	253	121	173	115	18	31	123	390	846	784	3,344
Brooks .....	367	244	260	187	170	119	153	279	701	1,241	857	386	4,905
Camrose .....	4,298	2,444	3,541	1,822	1,529	1,122	1,821	2,010	4,086	4,522	7,691	6,609	41,194
Carbon .....	9,625	6,421	7,734	3,888	2,249	403	802	3,310	8,407	14,075	17,296	11,618	85,824
Castor .....	2,717	1,608	1,683	584	325	353	302	504	1,033	2,253	7,309	5,639	24,162
Champion .....	1,181	784	866	499	384	315	368	504	1,418	2,948	1,731	1,135	12,113
Drumheller .....	134,284	66,178	91,361	27,811	20,682	14,712	15,716	34,253	135,306	179,009	215,691	135,550	1,070,543
Edmonton .....	42,421	28,888	39,510	20,277	13,972	11,320	10,922	15,133	32,077	39,794	58,736	57,202	370,252
Gleichen .....	318	163	287	92	76	43	48	63	198	606	879	467	3,235
Halcourt .....	135	37	.....	.....	.....	.....	911	36	93	184	341	343	2,080
Lethbridge .....	29,863	19,384	23,968	17,508	13,056	8,776	12,480	25,067	59,990	55,400	54,410	38,844	358,746
Magrath .....	135	84	67	39	26	66	57	73	129	407	353	313	1,749
Milk River .....	160	128	187	93	246	155	157	135	389	785	1,69	1,275	3,879
Pakowki .....	82	59	89	3	.....	.....	.....	25	108	705	290	254	1,615
Pembina .....	10,378	12,722	9,619	8,137	6,744	4,866	2,725	1,685	9,237	7,607	9,748	9,448	92,916
Redcliff .....	2,845	2,565	3,534	2,734	1,386	806	1,030	1,026	1,696	2,519	1,674	3,304	25,119
Rochester .....	.....	225	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	225
Sexsmith .....	1,362	927	940	453	336	307	415	447	1,539	6,552	4,495	2,361	20,134
Sheerness .....	1,535	601	475	319	176	128	160	551	1,500	2,829	2,270	1,310	11,863
Taber .....	10,494	8,756	8,193	6,677	7,883	5,142	8,119	8,481	7,315	8,951	11,645	10,127	101,792
Tofield .....	18	14	11	15	5	.....	.....	.....	.....	.....	.....	.....	188
Wetaskiwin .....	25	26	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	54
Whitecourt .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>Total .....</b>	<b>253,214</b>	<b>153,014</b>	<b>192,928</b>	<b>91,294</b>	<b>69,498</b>	<b>49,258</b>	<b>56,679</b>	<b>94,017</b>	<b>266,196</b>	<b>332,320</b>	<b>398,743</b>	<b>289,333</b>	<b>2,246,544</b>

## THE MINES BRANCH

## Total amount of SUB-BITUMINOUS COAL by areas during each month:

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur .....	47,168	31,789	25,054	20,435	31,049	15,396	39,641	35,368	29,398	34,316	44,962	43,492	398,068
Pekisko .....	88	106	47	24	13	18	19	66	80	52	186	217	873
Fincher .....	296	200	214	221	30	30	24	40	177	441	338	395	2,413
Frairie Creek .....	1,894	1,170	1,131	575	1,513	2,077	2,913	4,864	4,556	4,097	5,816	4,917	35,523
Saunders .....	3,415	1,228	1,518	445	700	1,100	1,222	2,923	7,115	4,309	5,891	4,646	34,512
Total.....	52,861	34,493	27,964	21,700	33,312	18,622	43,866	43,220	41,326	43,215	57,143	53,667	471,389

## Total output of BITUMINOUS COAL by areas during each month:

Cascade .....	11,641	12,395	13,571	16,034	14,718	16,332	14,190	14,422	12,115	14,789	12,985	13,905	166,297
Crow's Nest .....	77,715	73,081	87,374	81,493	97,212	90,951	87,018	72,506	66,925	66,706	76,599	73,900	951,970
Mountain Park .....	57,159	50,127	50,576	49,864	48,329	47,777	52,914	30,875	29,316	30,803	54,607	58,328	560,875
Nordegg .....	18,360	13,612	14,436	13,089	13,538	13,006	13,334	6,670	7,102	14,223	18,635	21,204	167,215
Total.....	164,875	149,215	166,557	160,480	173,797	168,066	167,456	124,473	115,458	126,527	162,116	167,337	1,846,357

## Total output of COAL AND BRIQUETTES during the year:

Coal .....	470,950	396,722	387,449	273,474	276,607	235,946	268,001	261,710	422,980	502,062	618,002	510,387	4,564,290
Briquettes .....	1,898	1,406	1,152	770	404	1,209	536	1,120	1,310	1,369	1,554	2,374	15,102

## Total Sales of SUB-BITUMINOUS COAL for consumption by Railroad Companies:

Coalspur .....	24,955	20,224	16,184	11,253	21,948	11,249	24,778	18,846	12,515	14,395	20,442	21,034	217,823
Prairie Creek .....	574	345	271	440	1,427	1,984	2,358	2,228	1,767	982	1,642	2,394	16,412
Saunders .....	.....	.....	.....	.....	.....	.....	280	250	568	32	624	539	2,293
Total.....	25,529	20,569	16,455	11,693	23,375	13,233	27,416	21,324	14,850	15,409	22,708	23,967	236,528

Total Sales of BITUMINOUS COAL for consumption by Railroad Companies:

Cascade .....	7,968	9,565	10,862	13,297	13,791	12,341	11,687	9,165	11,294	8,103	8,887	180,473
Crow's Nest .....	49,503	49,955	60,630	79,219	76,359	76,192	63,214	47,085	48,118	59,841	48,642	718,099
Mountain Park .....	42,291	40,137	39,937	39,442	41,534	43,109	23,425	22,134	22,217	39,517	39,051	433,536
Nordegg .....	16,279	12,142	12,014	12,606	12,163	12,023	6,009	6,017	12,338	16,458	19,155	149,315
Total.....	116,041	111,789	123,443	144,564	143,847	143,665	104,335	84,401	93,967	123,419	115,785	1,431,923
Grand Total.....	141,570	132,358	239,898	167,939	157,080	171,081	125,659	99,251	109,376	146,127	139,702	1,668,451

Total amount of Domestic Coal disposed of by areas during each month for consumption in Alberta:

LUMP COAL

Ardley .....	88	78	14	164	279	.....	.....	192	96	576	328	1,815
Big Valley .....	40	20	20	25	.....	.....	.....	21	80	150	115	511
Brooks .....	367	248	180	110	110	162	279	699	1,241	857	386	4,374
Camrose .....	1,139	922	1,163	727	450	543	458	927	1,020	2,235	1,731	12,016
Carbon .....	1,513	877	1,233	314	270	486	887	1,315	3,796	6,048	3,281	21,642
Castor .....	285	174	286	27	21	25	7	176	478	931	669	3,081
Champion .....	326	503	303	204	183	212	283	641	1,335	961	642	6,329
Drumheller .....	9,008	4,271	9,189	3,574	1,786	2,750	5,600	12,762	15,125	18,232	11,307	95,335
Edmonton .....	13,965	7,834	11,987	3,001	2,364	2,399	3,612	10,762	15,303	24,093	21,600	121,329
Gleichen .....	272	140	240	47	24	30	30	134	326	310	221	1,321
Halcyon .....	75	15	15	30	6	6	25	42	30	116	32	359
Lethbridge .....	5,532	6,060	2,944	3,166	3,190	3,633	4,047	10,382	8,070	6,995	4,621	62,099
Magrath .....	45	34	31	20	43	30	42	73	252	228	220	1,033
Milk River .....	65	39	29	30	104	115	35	111	150	18	103	381
Pakowski .....	1,201	478	195	1,151	76	262	35	1,315	703	60	103	360
Pembina .....	152	42	1	.....	.....	.....	.....	85	420	1,437	1,491	9,237
Redcliff .....	124	89	36	24	20	22	53	478	1,972	505	230	3,403
Sheerness .....	416	183	237	71	45	37	129	663	1,235	395	486	4,818
Torfield .....	660	537	553	182	150	150	150	446	1,072	1,606	947	6,593
Whitecourt .....	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13
Total.....	35,570	19,899	32,740	13,338	9,116	10,882	15,677	42,174	52,060	66,519	48,498	358,991

THE MINES BRANCH

MINE-RUN COAL

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley .....	608	291	258	18	2	4	26	12	60	276	1,190	1,624	4,369
Big Valley .....	253	181	186	57	51	15	18	28	65	174	437	449	1,864
Carlrose .....	408	241	236	213	100	131	139	196	151	326	537	593	3,261
Carbon .....	565	315	355	66	53	30	85	64	283	547	1,446	937	4,696
Castor .....	2,312	1,355	1,331	502	271	288	250	259	773	1,653	5,971	4,617	19,582
Champion .....	391	190	229	134	138	104	122	159	681	1,460	645	367	4,420
Drumheller .....	299	210	263	412	228	209	315	307	694	1,070	1,085	1,000	6,092
Edmonton .....	4,343	3,790	3,542	3,472	2,389	2,196	1,449	2,756	2,149	2,841	3,090	2,773	33,990
Gleichen .....	6	5	15	38	20	13	7	28	53	259	518	237	1,189
Haicourt .....	50	17	.....	.....	.....	.....	876	41	41	125	192	284	1,591
Lethbridge .....	3,025	1,744	1,937	1,880	1,068	1,207	1,163	1,415	1,575	1,889	2,097	1,645	20,645
Magrath .....	5	14	7	.....	.....	.....	.....	.....	13	.....	.....	.....	85
Milk River .....	81	79	91	57	209	25	16	91	252	463	147	1,271	2,787
Pakowki .....	61	58	29	3	.....	.....	.....	.....	116	476	140	1,100	1,085
Pembina .....	1,596	1,559	1,054	918	2,162	1,309	870	592	592	676	1,265	1,160	13,555
Redcliff .....	1,813	2,034	3,269	2,381	1,361	652	594	628	623	818	759	.....	16,641
Rochester .....	.....	225	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	225
Sexsmith .....	.....	34	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	34
Sheerness .....	729	442	438	252	187	192	303	292	905	3,634	2,065	1,203	10,642
Taber .....	312	144	141	706	57	49	10	105	301	641	496	304	2,709
Tofield .....	1,433	820	865	706	267	350	406	167	528	848	2,007	1,956	10,353
Wetaskiwin .....	18	14	11	15	5	.....	.....	.....	.....	.....	.....	.....	188
Whitecourt .....	15	12	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
Total .....	18,123	13,774	13,910	11,273	8,568	6,781	6,591	7,107	9,858	17,701	24,201	22,294	160,181

NUT COAL

Ardley	.....	3	1	18	34	136	189	150	201	117	190	136	1,175
Big Valley	.....	35	40	26	25	.....	.....	.....	20	65	123	95	489
Camrose	.....	1,100	682	447	397	313	295	321	992	889	1,819	1,441	9,897
Carbon	.....	1,159	972	647	538	153	184	804	1,462	2,704	2,873	2,082	14,608
Castor	.....	22	26	5	3	28	9	32	20	16	21	38	222
Champion	.....	130	66	40	7	16	20	40	50	77	5,913	75	651
Drumbeller	.....	3,554	4,545	1,744	1,094	572	851	2,201	3,805	5,097	3,936	3,936	35,263
Edmonton	.....	12,891	11,867	5,260	4,220	3,246	3,213	4,046	8,900	10,044	16,783	17,010	106,953
Gleichen	.....	25	18	7	9	6	6	5	11	21	46	19	195
Halcourt	.....	2,766	1,568	1,960	1,398	617	865	1,840	3,507	5,124	4,077	2,829	28,014
Lethbridge	.....	55	23	5	6	.....	22	21	35	112	93	88	499
Magrath	.....	760	2,166	2,418	804	95	1,028	228	1,114	1,569	1,023	1,311	14,184
Pembina	.....	3	4	2	1	.....	.....	1	7	7	12	1	42
Redcliff	.....	98	38	.....	.....	.....	13	12	.....	.....	33	.....	194
Sheerness	.....	52	11	7	.....	.....	64	31	40	225	129	98	684
Taber	.....	91	44	.....	.....	.....	.....	.....	.....	68	140	70	472
Tofield	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	.....	22,766	16,477	12,586	8,538	5,194	6,759	9,738	20,144	26,142	33,348	29,235	213,559

SLACK COAL

Ardley	.....	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	161
Big Valley	.....	193	22	183	128	84	106	100	238	294	648	617	2,833
Camrose	.....	1,123	1,026	717	313	.....	1	359	839	1,549	1,635	1,297	10,182
Carbon	.....	.....	.....	.....	.....	.....	.....	.....	27	17	47	45	136
Castor	.....	.....	.....	.....	.....	.....	.....	.....	30	52	.....	.....	99
Champion	.....	4,651	2,368	2,597	2,252	2,234	1,747	2,881	6,558	9,544	13,326	5,167	58,345
Drumbeller	.....	6,926	4,632	3,564	2,276	2,259	2,518	2,766	6,703	8,583	10,433	11,908	70,438
Edmonton	.....	15	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	28
Gleichen	.....	.....	.....	.....	.....	.....	.....	.....	8	5	18	14	67
Halcourt	.....	1,337	407	380	324	397	292	1,179	4,647	4,484	4,594	1,258	19,613
Lethbridge	.....	.....	.....	.....	.....	.....	.....	.....	7	35	5	5	71
Magrath	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Milk River	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pembina	.....	1,638	3,170	2,078	520	545	381	460	1,115	1,447	1,272	561	15,432
Redcliff	.....	14	11	9	16	4	.....	3	24	31	18	14	144
Sheerness	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	103
Taber	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	706
Tofield	.....	31	32	64	160	131	164	128	129	166	147	166	1,318
Total	.....	15,948	11,683	9,604	6,131	5,669	5,143	8,060	20,467	26,510	32,286	21,063	179,682

## THE MINES BRANCH

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Alberta:  
LUMP COAL

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur .....	580	601	495	49	45	48	48	146	756	838	1,033	532	5,166
Fincher .....	71	67	67	59	16	12	6	15	65	102	85	114	679
Prairie Creek .....	109	75	30	1	.....	.....	.....	267	280	323	468	186	1,808
Saunders .....	245	64	132	72	33	32	93	373	631	275	759	190	2,899
Total.....	1,005	807	784	181	94	87	147	801	1,732	1,538	2,345	1,031	10,552

## MINE-RUN COAL

Coalspur .....	35	11	95	36	32	20	24	26	67	72	171	75	664
Fekisko .....	58	76	38	24	8	9	31	48	80	52	86	157	617
Fincher .....	.....	.....	.....	.....	.....	.....	.....	.....	16	22	45	35	118
Prairie Creek .....	80	.....	60	2	2	241	.....	1,163	124	.....	100	101	1,823
Saunders .....	129	15	164	142	38	42	102	13	246	125	92	149	1,257
Total.....	252	102	357	202	80	73	398	1,250	533	271	444	517	4,479

## NUT COAL

Coalspur .....	41	68	57	8	37	141	266	1,449	525	6	88	27	2,713
Fincher .....	186	97	123	82	7	.....	11	18	76	297	168	190	1,255
Prairie Creek .....	96	9	5	1	.....	.....	.....	12	67	331	72	75	670
Saunders .....	185	141	109	.....	158	411	54	133	388	198	265	277	2,319
Total.....	508	315	294	91	204	552	331	1,612	1,056	832	533	569	6,957



SLACK COAL

Coalspur .....	35	24	10	26	.....	1,857	1,774	445	10	24	.....	4,076
Fincher .....	.....	.....	.....	.....	.....	.....	.....	7	.....	.....	.....	146
Prairie Creek .....	.....	.....	.....	.....	.....	.....	62	190	.....	.....	.....	252
Saunders .....	.....	.....	.....	.....	.....	.....	.....	35	30	.....	.....	65
Total.....	35	24	10	26	.....	1,857	1,836	677	40	24	10	4,539

Total amount of Bituminous Coal disposed of by areas during each month for consumption in Alberta:

LUMP COAL

Cascade .....	173	136	131	93	14	60	28	153	99	172	224	1,309
Crow's Nest .....	509	316	343	181	104	69	111	294	523	406	417	3,375
Mountain Park .....	112	83	123	79	29	32	24	50	110	130	129	928
Total.....	794	535	597	353	159	161	163	497	732	708	770	5,612

MINE-RUN COAL

Cascade .....	211	47	33	80	.....	49	77	258	181	.....	.....	936
Crow's Nest .....	2,284	1,416	1,770	980	818	396	707	1,383	1,579	1,794	1,999	15,580
Mountain Park .....	5,483	3,813	2,998	2,881	3,276	3,341	1,863	2,278	3,846	3,561	3,502	39,109
Nordeg .....	1,296	774	612	776	329	339	1,138	528	1,032	871	845	7,384
Total.....	9,274	6,050	5,413	4,517	4,423	4,125	2,785	4,447	6,638	6,226	6,346	63,459

NUT COAL

Cascade .....	39	38	37	40	12	12	22	40	151	45	116	564
Crow's Nest .....	104	40	77	42	10	8	11	110	6	102	92	613
Total.....	143	78	114	82	22	20	33	150	157	147	208	1,177

SLACK COAL

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Crow's Nest .....	1,096	1,057	1,411	1,048	1,123	721	570	668	921	1,298	665	737	11,315
Mountain Park .....	.....	34	.....	.....	.....	.....	30	.....	1	3	31	102	201
Total.....	1,096	1,091	1,411	1,048	1,123	721	600	668	922	1,301	696	839	11,516

Total amount of Domestic Coal disposed of by areas during each month for consumption in British Columbia:

LUMP COAL

Ardley .....	.....	.....	.....	.....	.....	.....	.....	.....	70	.....	67	.....	70
Carbon .....	3,895	1,920	1,849	971	104	282	389	113	104	181	.....	33	498
Drumheller .....	.....	72	.....	.....	.....	.....	.....	945	4,741	4,409	6,056	4,401	29,962
Edmonton .....	2,668	1,656	1,503	897	594	117	901	2,844	33	75	32	111	323
Lethbridge .....	349	475	160	132	34	.....	.....	.....	3,019	3,544	3,253	2,929	23,425
Pembina .....	.....	.....	.....	.....	.....	.....	.....	.....	369	304	665	554	3,042
Redcliff .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	96	.....	84	190
Taber .....	.....	.....	.....	.....	.....	.....	.....	.....	73	.....	.....	32	105
Tofield .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	32	.....	32
Total.....	6,912	4,123	3,512	2,000	732	399	1,290	3,402	8,409	8,609	10,105	8,154	57,647

MINE-RUN COAL

Carbon .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	120
Drumheller .....	71	.....	69	65	.....	.....	.....	.....	.....	64	56	.....	205
Total.....	71	.....	69	65	.....	.....	.....	.....	.....	64	56	.....	325

NUT COAL

Ardley .....	33	34	100	359	66	67	30	35	30	801
Carbon .....	2,821	809	1,933	957	691	204	2,118	2,934	2,413	18,060
Drumheller .....	64	32	32	452	345	179	1,828	1,644	1,065	9,445
Edmonton .....	1,024	524	594	648	92	699	611	878	706	5,189
Lethbridge .....	403	604	548	.....	32	.....	.....	.....	.....	32
Pembina .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Taber .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	4,345	1,971	3,207	2,416	1,134	475	424	5,491	4,184	33,653

SLACK COAL

Drumheller .....	35	35	99	31	.....	34	425	.....	.....	659
Total.....	35	35	99	31	.....	34	425	.....	.....	659

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in British Columbia:

LUMP COAL

Coalspur .....	2,858	1,245	1,588	402	127	297	651	1,309	2,036	3,278	3,788	21,571
Frarie Creek .....	384	207	247	34	34	.....	83	72	527	513	295	3,030
Saunders .....	32	64	31	.....	.....	.....	60	137	227	97	64	73
Total.....	3,274	1,516	1,861	436	161	297	794	1,518	2,790	3,888	4,695	25,386

MINE-RUN COAL

Coalspur .....	.....	.....	33	31	146	65	35	63	.....	.....	.....	373
Total.....	.....	.....	33	31	146	65	35	63	.....	.....	.....	373

NUT COAL

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur .....	1,302	1,108	1,141	998	313	457	537	715	823	1,185	1,039	956	10,574
Prairie Creek .....	103	66	30	.....	.....	.....	40	.....	340	198	322	165	1,264
Saunders .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	32	.....	32
<b>Total.....</b>	<b>1,405</b>	<b>1,174</b>	<b>1,171</b>	<b>998</b>	<b>313</b>	<b>457</b>	<b>577</b>	<b>715</b>	<b>1,163</b>	<b>1,383</b>	<b>1,393</b>	<b>1,121</b>	<b>11,870</b>

SLACK COAL

Coalspur .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	31
Prairie Creek .....	.....	.....	.....	43	.....	.....	.....	.....	.....	.....	.....	.....	43
<b>Total.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>43</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>31</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>74</b>

Total amount of Bituminous Coal disposed of by areas during each month for consumption in British Columbia:

LUMP COAL

Cascade .....	43	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	76
Crow's Nest .....	222	93	.....	.....	.....	98	.....	143	455	279	282	277	1,849
<b>Total.....</b>	<b>265</b>	<b>93</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>98</b>	<b>.....</b>	<b>143</b>	<b>455</b>	<b>279</b>	<b>315</b>	<b>277</b>	<b>1,925</b>

MINE-RUN COAL

Cascade .....	.....	38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	171
Crow's Nest .....	652	585	183	.....	48	.....	.....	66	217	69	.....	48	2,061
Mountain Park .....	.....	.....	.....	.....	.....	.....	696	485	755	.....	.....	.....	1,936
<b>Total.....</b>	<b>652</b>	<b>623</b>	<b>183</b>	<b>48</b>	<b>48</b>	<b>34</b>	<b>696</b>	<b>582</b>	<b>972</b>	<b>104</b>	<b>48</b>	<b>178</b>	<b>4,168</b>



THE MINES BRANCH

MINE-RUN COAL

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
Big Valley .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	31
Camrose .....	32	.....	.....	.....	.....	47	310	705	566	443	296	180	2,579
Castor .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	120
Drumheller .....	196	69	950	1,431	560	403	187	464	605	1,906	1,307	665	8,913
Edmonton .....	.....	1,036	1,692	1,806	810	216	162	84	280	389	1,248	351	7,174
Pembina .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,616
Redcliff .....	797	299	104	265	519	97	404	362	876	395	453	1,099	5,355
Sheerness .....	218	32	210	30	30	101	.....	.....	.....	.....	.....	.....	2,019
Toffield .....	4,520	4,078	3,568	3,758	5,120	2,408	4,788	5,145	3,216	1,643	2,342	2,087	42,673
Total.....	5,763	5,574	6,524	7,410	7,099	3,363	5,351	6,710	5,633	5,475	5,296	4,342	69,540

NUT COAL

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	282
Camrose .....	853	207	136	75	34	.....	.....	.....	.....	.....	.....	.....	3,258
Carbon .....	212	596	600	547	250	.....	.....	.....	.....	.....	.....	.....	3,038
Drumheller .....	11,063	6,477	10,114	5,158	2,730	1,813	1,908	3,254	11,358	16,255	18,018	11,683	99,831
Edmonton .....	1,203	570	852	294	63	92	156	580	375	367	580	1,271	5,210
Lethbridge .....	1,567	1,276	2,112	762	372	270	735	1,588	3,041	3,651	5,327	3,328	24,629
Pembina .....	856	1,954	95	32	.....	.....	.....	.....	.....	.....	.....	.....	3,848
Sheerness .....	30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	73
Taber .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	743
Total.....	15,284	11,080	13,940	6,868	3,449	2,532	2,799	5,537	15,647	21,171	26,612	16,173	141,092

SLACK COAL

Ardley .....	321	189	110	161	195	957	933	310	80	45	107	525
Camrose .....	.....	33	2	.....	.....	.....	.....	30	181	264	239	3,860
Carbon .....	.....	.....	.....	.....	.....	.....	.....	.....	72	.....	.....	137
Castor .....	14,415	8,400	11,343	4,139	3,608	1,222	2,740	10,098	11,915	10	11,788	95,239
Drumheller .....	.....	.....	330	.....	.....	.....	.....	.....	142	.....	.....	10
Edmonton .....	1,256	963	746	587	98	232	234	1,279	807	1,237	2,320	472
Lethbridge .....	291	584	464	457	439	384	.....	313	63	398	1,195	9,759
Rembina .....	.....	42	.....	.....	.....	.....	.....	.....	.....	.....	.....	4,583
Redcliff .....	.....	45	.....	.....	.....	.....	.....	.....	.....	.....	90	42
Sheerness .....	224	223	265	226	159	33	33	.....	45	.....	.....	135
Torfield .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,238
Total.....	16,507	10,479	13,260	5,570	4,304	1,713	2,441	12,025	13,163	16,566	15,732	115,700

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Saskatchewan:

LUMP COAL

Coalspur .....	906	74	60	.....	.....	113	321	714	1,035	846	497	4,597
Prairie Creek .....	63	34	17	.....	.....	.....	244	401	194	296	101	1,350
Saunders .....	496	268	262	.....	62	65	498	1,268	1,142	1,295	780	6,136
Total.....	1,465	376	339	.....	62	96	1,063	2,383	2,371	2,437	1,378	12,083

MINE-RUN COAL

Coalspur .....	120	240	270	.....	.....	.....	.....	31	95	69	31	100
Prairie Creek .....	34	.....	160	24	.....	.....	.....	33	33	180	64	1,000
Saunders .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	32	.....	233
Total.....	154	240	430	24	.....	.....	.....	31	128	281	95	1,333

NUT COAL

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur .....	682	311	154	.....	176	83	130	706	810	742	742	789	5,275
Prairie Creek .....	.....	.....	16	.....	.....	.....	.....	32	.....	96	196	64	404
Saunders .....	669	75	98	.....	.....	175	168	420	926	723	735	537	4,617
<b>Total.....</b>	<b>1,292</b>	<b>386</b>	<b>268</b>	<b>.....</b>	<b>176</b>	<b>268</b>	<b>298</b>	<b>1,158</b>	<b>1,736</b>	<b>1,561</b>	<b>1,673</b>	<b>1,390</b>	<b>10,196</b>

SLACK COAL

Coalspur .....	77	41	85	.....	.....	291	.....	126	171	279	102	156	1,278
Saunders .....	229	76	103	.....	123	67	66	196	490	189	454	304	2,397
<b>Total.....</b>	<b>306</b>	<b>117</b>	<b>188</b>	<b>.....</b>	<b>123</b>	<b>358</b>	<b>66</b>	<b>322</b>	<b>661</b>	<b>468</b>	<b>556</b>	<b>460</b>	<b>3,675</b>

Amount of Bituminous Coal disposed of by areas during each month for consumption in Saskatchewan:

LUMP COAL

Cascade .....	30	.....	.....	.....	.....	.....	.....	.....	.....	35	36	.....	101
Crow's Nest .....	1,192	145	494	115	131	78	115	322	560	677	449	669	4,947
<b>Total.....</b>	<b>1,222</b>	<b>145</b>	<b>494</b>	<b>115</b>	<b>131</b>	<b>78</b>	<b>115</b>	<b>322</b>	<b>560</b>	<b>712</b>	<b>485</b>	<b>669</b>	<b>5,048</b>

MINE-RUN COAL

Cascade .....	.....	.....	2,249	470	554	231	274	591	3,043	2,155	3,161	2,925	33
Crow's Nest .....	3,846	2,016	537	101	67	204	30	137	538	402	665	807	21,515
Mountain Park .....	636	343	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4,467
<b>Total.....</b>	<b>4,482</b>	<b>2,359</b>	<b>2,786</b>	<b>571</b>	<b>621</b>	<b>435</b>	<b>304</b>	<b>728</b>	<b>3,581</b>	<b>2,557</b>	<b>3,859</b>	<b>3,732</b>	<b>26,015</b>





MINE-RUN COAL

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Drumheller .....	34	436	134	166	34	.....	.....	.....	88	.....	.....	.....	721
Edmonton .....	107	76	32	42	.....	.....	.....	.....	31	.....	69	.....	891
Lethbridge .....	90	2,686	1,390	1,645	1,720	2,160	2,435	2,111	2,250	2,115	3,661	.....	395
Taber .....	2,993	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	90
Tofield .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27,781
Total .....	3,190	2,796	3,158	1,811	1,762	2,194	2,435	2,142	2,333	2,184	3,886	.....	29,447

NUT COAL

Ardley .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33	.....	.....	33
Camrose .....	34	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	34
Carbon .....	2,704	1,704	490	171	.....	.....	.....	.....	772	1,557	1,519	1,538	12,894
Drumheller .....	4,885	2,368	607	530	455	130	363	674	4,204	5,108	7,303	4,320	33,860
Edmonton .....	156	94	128	128	.....	.....	.....	.....	95	31	31	401	936
Lethbridge .....	65	72	.....	101	.....	.....	.....	.....	101	375	314	132	1,466
Fernbina .....	708	512	65	64	.....	.....	.....	.....	543	362	695	506	3,934
Total .....	8,552	4,656	6,022	1,162	994	455	130	1,246	5,715	7,466	9,862	6,897	53,157

SLACK COAL

Carbon .....	281	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	281
Drumheller .....	1,637	1,098	614	285	234	170	.....	104	2,104	3,770	4,518	3,474	18,008
Total .....	1,918	1,098	614	285	234	170	.....	104	2,104	3,770	4,518	3,474	18,289

Amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Manitoba:

LUMP COAL													
Coalspur .....	3,602	1,909	288	32	.....	139	723	1,893	3,162	2,332	3,659	3,100	20,839
Prairie Creek .....	232	31	110	.....	.....	.....	.....	277	256	256	543	363	1,812
Saunders .....	761	159	31	.....	.....	65	40	271	1,538	532	686	639	4,772
Total.....	4,595	2,099	429	32	.....	204	763	2,164	4,977	3,170	4,888	4,102	27,423
MINE-RUN COAL													
Coalspur .....	32	.....	33	.....	62	.....	.....	.....	46	.....	.....	.....	173
Prairie Creek .....	.....	.....	.....	30	.....	.....	.....	127	137	163	180	123	760
Total.....	32	.....	33	30	62	.....	.....	127	183	163	180	123	933
NUT COAL													
Coalspur .....	762	158	234	.....	31	101	131	173	789	1,798	1,122	1,179	6,478
Prairie Creek .....	.....	30	59	66	.....	.....	.....	74	365	660	65	64	1,154
Saunders .....	65	.....	.....	.....	.....	.....	.....	.....	32	65	95	99	635
Total.....	827	188	293	66	31	101	131	247	1,236	2,523	1,282	1,342	8,267
SLACK COAL													
Coalspur .....	1,632	905	337	.....	.....	113	316	587	1,123	1,538	1,557	1,038	9,176
Prairie Creek .....	153	153	.....	.....	.....	.....	52	.....	.....	.....	834	526	1,718
Saunders .....	.....	.....	.....	.....	.....	.....	.....	.....	225	199	194	123	711
Total.....	1,785	1,058	337	.....	.....	113	368	587	1,348	1,707	2,585	1,717	11,605

Amount of Bituminous Coal disposed of by areas during each month for consumption in Manitoba:

LUMP COAL

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cascade .....	82	82	131	150	293	205	128	476	32	280	77	44	121
Crow's Nest .....	5,667	2,970	4,243	3,872	3,087	1,012	1,360	174	1,335	1,713	6,039	10,379	41,592
Mountain Park .....	.....	.....	.....	.....	.....	374	339	202	.....	34	83	.....	1,352
<b>Total.....</b>	<b>82</b>	<b>82</b>	<b>131</b>	<b>199</b>	<b>614</b>	<b>579</b>	<b>467</b>	<b>678</b>	<b>32</b>	<b>314</b>	<b>224</b>	<b>190</b>	<b>3,592</b>

MINE-RUN COAL

Cascade .....	794	581	48	162	115	.....	136	.....	525	539	.....	77	77
Crow's Nest .....	5,667	2,970	4,243	3,872	3,087	1,012	1,360	174	1,335	1,713	6,039	10,379	41,592
Mountain Park .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nordegg .....	.....	.....	.....	.....	.....	.....	.....	33	67	.....	133	268	501
<b>Total.....</b>	<b>6,461</b>	<b>3,501</b>	<b>4,291</b>	<b>4,024</b>	<b>3,202</b>	<b>1,012</b>	<b>1,496</b>	<b>417</b>	<b>1,927</b>	<b>2,252</b>	<b>6,607</b>	<b>11,831</b>	<b>47,921</b>

NUT COAL

Cascade .....	33	.....	.....	.....	.....	.....	.....	33	134	205	640	336	1,348
Crow's Nest .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	66
<b>Total.....</b>	<b>33</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>66</b>	<b>134</b>	<b>205</b>	<b>640</b>	<b>336</b>	<b>1,414</b>

SLACK COAL

Cascade .....	145	7,859	8,976	5,799	4,225	2,597	1,160	114	33	167	.....	273	732
Crow's Nest .....	8,590	2,970	4,243	3,872	3,087	1,012	1,360	2,441	2,415	2,411	2,810	6,065	55,338
Mountain Park .....	.....	.....	.....	.....	.....	.....	.....	2,677	2,461	400	2,298	2,328	9,943
Nordegg .....	.....	.....	.....	.....	.....	.....	.....	33	246	360	101	132	872
<b>Total.....</b>	<b>8,735</b>	<b>7,908</b>	<b>8,976</b>	<b>5,799</b>	<b>4,294</b>	<b>2,691</b>	<b>3,188</b>	<b>5,265</b>	<b>2,694</b>	<b>3,338</b>	<b>5,209</b>	<b>8,788</b>	<b>66,885</b>

Amount of Domestic Coal disposed of by areas during each month for consumption in Ontario:

LUMP COAL

Drumheller .....	2,055	1,450	303	97	156	230	1,306	706	1,578	2,657	2,592	2,591	15,321
Edmonton .....	.....	.....	.....	.....	40	.....	.....	.....	34	.....	.....	.....	71
Lethbridge .....	65	43	.....	76	.....	64	.....	33	32	153	164	261	891
Total.....	2,120	1,493	303	173	196	294	1,306	733	1,744	2,810	2,756	2,852	16,783

NUT COAL

Carbon .....	35	34	.....	33	.....	.....	.....	.....	.....	.....	.....	.....	102
Drumheller .....	217	299	65	65	.....	62	33	39	361	712	816	411	3,080
Lethbridge .....	65	302	.....	.....	.....	.....	.....	.....	150	32	124	33	706
Pembina .....	72	39	33	.....	.....	.....	.....	.....	32	30	.....	88	244
Total.....	389	674	98	98	.....	62	33	39	543	774	940	482	4,132

SLACK COAL

Drumheller .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16	8	.....	24
------------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	----	---	-------	----

Amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Ontario:

LUMP COAL

Coalspur .....	344	99	69	.....	.....	34	33	.....	308	1,039	883	691	3,500
Prairie Creek .....	.....	.....	.....	.....	.....	42	107	.....	.....	33	.....	133	315
Saunders .....	116	70	33	84	.....	32	163	167	120	166	134	485	1,570
Total.....	460	169	102	.....	84	108	303	167	428	1,238	1,017	1,309	5,385

MINE-RUN COAL

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Saunders .....	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33	33

NUT COAL

Coalspur .....	33	70	.....	.....	.....	.....	.....	.....	46	.....	102	33	284
Prairie Creek .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	31	64	41	136
Total.....	33	70	.....	.....	.....	.....	.....	.....	46	31	166	74	420

Amount of Bituminous Coal disposed of by areas during each month for consumption in Ontario :

MINE-RUN COAL

Crow's Nest .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42	42
Mountain Park .....	.....	.....	.....	.....	.....	.....	.....	.....	115	.....	.....	.....	115
Total.....	.....	.....	.....	.....	.....	.....	.....	.....	115	.....	.....	42	157

SLACK COAL

Cascade .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33	.....	33
Crow's Nest .....	.....	.....	.....	.....	.....	.....	.....	46	20	.....	.....	.....	66
Total.....	.....	.....	.....	.....	.....	.....	.....	46	20	.....	33	.....	99

Amount of Domestic Coal disposed of by areas during each month for consumption in Quebec:

NUT COAL											
Drumheller .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33
Saunders .....	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	67

Amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Quebec:

LUMP COAL											
Drumheller .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33
Saunders .....	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	67

Amount of Domestic Coal disposed of by areas during each month for consumption in United States:

LUMP COAL												
Drumheller .....	320	84	171	166	.....	.....	.....	102	646	232	530	2,754
Lethbridge .....	244	113	80	47	.....	.....	.....	169	920	243	322	2,587
Taber .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42	.....	42
Total.....	564	197	251	213	.....	.....	.....	271	1,566	517	852	5,383

NUT COAL

Drumheller .....	1,070	410	346	64	32	.....	.....	.....	560	1,019	1,680	960	6,141
Lethbridge .....	873	267	381	202	.....	135	165	498	3,175	439	643	712	7,490
Taber .....	40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	40
Total.....	1,983	677	727	266	32	135	165	498	3,735	1,458	2,323	1,672	13,671

SLACK COAL

Drumheller .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saunders .....	.....	.....	.....	43	.....	.....	.....	.....	408	178	65	33	727

THE MINES BRANCH

Amount of Bituminous Coal disposed of by areas during each month for consumption in the United States:  
LUMP COAL

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Crow's Nest .....	116	144	.....	.....	.....	.....	.....	48	100	78	149	228	863
Total.....	116	144	.....	.....	.....	.....	.....	48	100	78	149	228	863
MINE-RUN COAL													
Crow's Nest .....	355	33	.....	.....	50	50	.....	.....	50	.....	.....	.....	538
NUT COAL													
Crow's Nest .....	32	.....	.....	.....	.....	34	60	33	30	.....	31	.....	220
SLACK COAL													
Crow's Nest .....	1,238	719	786	490	293	279	366	382	1,040	973	1,215	1,201	9,032



Amount of Domestic Coal used under Colliery Boilers by areas during each month:

Ardley .....	30	22	19	24	40	50	40	40	40	50	45	30	390
Brooks .....	9	12	7	7	1	1	1	1	1	1	1	1	31
Camrose .....	58	50	42	42	42	52	52	52	56	56	73	64	633
Carbon .....	250	250	100	40	10	20	45	90	130	130	140	110	1,425
Castor .....	22	8	.....	.....	.....	.....	.....	.....	35	35	35	22	101
Drumheller .....	2,610	1,570	772	705	598	610	760	1,840	2,320	2,535	2,535	2,330	18,838
Edmonton .....	876	736	621	470	455	455	535	612	681	851	851	1,092	8,064
Lethbridge .....	3,798	3,061	3,166	3,151	2,393	2,748	3,307	3,874	3,223	3,554	3,554	3,657	39,608
Pembina .....	922	1,053	1,049	866	661	234	370	1,043	830	854	854	985	9,873
Sheerness .....	127	130	65	76	62	65	71	178	180	192	192	172	1,439
Taber .....	12	.....	350	350	350	350	350	150	150	150	150	14	44
Tofield .....	150	150	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,800
Total.....	8,825	7,614	6,144	5,724	4,589	4,585	5,530	7,885	7,630	8,437	8,437	8,630	83,246

Amount of Sub-Bituminous Coal used under Colliery Boilers by areas during each month:

Coalspur .....	2,138	1,643	1,534	1,819	1,892	2,433	1,943	1,811	1,918	2,383	2,635	2,635	24,206
Pincher .....	4	.....	19	2	10	.....	.....	.....	.....	.....	.....	.....	44
Prairie Creek .....	230	110	76	98	99	182	207	200	222	220	220	213	2,022
Saunders .....	488	266	141	125	185	299	315	447	391	522	384	384	3,899
Total.....	2,860	2,023	1,820	2,044	2,186	2,914	2,465	2,458	2,531	3,125	3,232	3,232	30,171

Amount of Bituminous Coal used under Colliery Boilers by areas during each month:

Cascade .....	1,319	1,254	1,525	994	1,322	1,152	1,167	1,262	1,225	1,434	1,505	1,505	15,514
Grow's Nest .....	3,395	3,073	3,002	2,553	2,888	2,222	1,761	1,976	1,934	2,103	2,953	2,953	30,886
Mountain Park .....	2,970	2,708	2,330	2,038	2,065	1,949	1,888	1,780	2,078	2,293	2,130	2,130	27,067
Nordegg .....	785	696	720	615	549	552	507	425	677	888	979	979	8,197
Total.....	8,469	7,731	7,577	6,200	6,324	5,875	5,323	5,443	5,914	6,718	7,567	7,567	81,564

## THE MINES BRANCH

## Amount of Domestic Coal used by Colliery Railroads by areas during each month:

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Lethbridge .....	16	11	8	12	9	.....	6	14	38	29	30	24	197
Pembina .....	45	.....	20	30	45	.....	.....	.....	50	45	55	50	360
Redcliff .....	75	71	82	74	22	15	32	32	25	70	24	75	597
Total .....	136	82	110	116	76	35	38	46	113	144	109	149	1,154

## Amount of Sub-Bituminous Coal used by Colliery Railroads by areas during each month:

Coalspur .....	560	345	385	80	455	420	475	395	300	290	280	475	4,460
----------------	-----	-----	-----	----	-----	-----	-----	-----	-----	-----	-----	-----	-------

## Amount of Bituminous Coal used by Colliery Railroads by areas during each month:

Cascade .....	27	30	33	39	33	36	33	33	27	33	27	30	381
Crow's Nest .....	62	47	57	50	50	64	65	50	67	55	60	57	684
Total .....	89	77	90	89	83	100	98	83	94	88	87	87	1,065

## Amount of Bituminous Coal used making Briquettes:

Cascade .....	1,778	1,332	1,084	724	379	1,136	502	1,038	1,223	1,274	1,445	2,208	14,123
---------------	-------	-------	-------	-----	-----	-------	-----	-------	-------	-------	-------	-------	--------



THE MINES BRANCH

Amount of Domestic Coal Put to Waste by areas during each month:

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley .....	2	10	37	18	35	60	50	50	70	40	105	105	317
Big Valley .....	48	23	22	22	22	.....	.....	1	17	71	105	105	447
Canrose .....	40	62	253	100	100	.....	.....	.....	.....	3	86	110	654
Carbon .....	161	40	55	49	13	2	43	107	337	536	665	321	2,329
Castor .....	76	58	82	25	24	21	18	89	37	89	264	178	880
Champion .....	34	25	34	22	7	5	10	22	16	24	64	51	314
Drumheller .....	11	31	2,000	.....	.....	.....	66	20	10	.....	.....	.....	2,138
Edmonton .....	158	125	138	17	.....	.....	.....	.....	57	267	379	284	1,425
Gleichen .....	.....	.....	.....	.....	.....	.....	27	.....	.....	2	2	.....	2
Halcourt .....	510	498	483	378	299	53	122	434	1,230	903	929	567	6,406
Lethbridge .....	14	10	15	7	7	26	26	9	.....	26	1	.....	41
Magrath .....	16	30	210	145	160	135	4	.....	.....	61	4	.....	1
Milk River .....	223	306	210	145	160	135	4	.....	335	210	40	49	207
Pakowki .....	36	30	21	10	8	2	12	14	38	237	542	385	2,640
Pembina .....	323	87	79	42	16	25	29	49	200	376	229	114	2,746
Taber .....	30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,609
Tofield .....	5	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
Whitecourt .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11
Total.....	1,689	1,311	3,423	713	686	319	403	714	2,379	2,909	3,532	2,334	20,412

Amount of Sub-Bituminous Coal Put to Waste by areas during each month:

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur .....	5,099	4,025	2,114	6,297	6,210	20	6,826	5,005	2,956	3,596	6,277	6,266	54,691
Pekisko .....	30	30	19	.....	.....	.....	15	1	6	.....	100	50	256
Pincher .....	.....	.....	.....	25	7	.....	.....	502	.....	.....	.....	20	592
Prairie Creek .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	5,129	4,055	2,133	6,322	6,222	20	6,841	5,508	2,962	3,596	6,377	6,336	55,501





OUTPUTS AND NUMBER OF MINES PRODUCING

Kind of Coal	Permits Issued to Farmers		Under 1,000 tons		From 1,000 to 5,000		From 5,000 to 10,000		From 10,000 to 50,000		From 50,000 to 100,000		From 100,000 to 150,000		From 150,000 to 200,000		Over 200,000		Total	
	No.	Tonnage	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output		
Domestic	23	981	157	55,408	54	107,414	12	82,486	23	615,702	16	1,115,172	1	107,396	1	161,985	.....	264	2,246,554	
Sub-Bituminous	.....	.....	10	2,112	3	4,800	.....	8	184,226	.....	.....	.....	1	17,076	1	163,178	.....	23	471,389	
Bituminous	.....	.....	4	2,153	1	3,246	.....	.....	1	25,864	1	83,179	2	255,582	7	1,171,469	1	304,874	17	1,846,357
Total	23	981	171	59,673	58	115,460	12	82,486	32	825,782	17	1,198,351	4	480,054	9	1,496,629	1	304,874	304	4,564,290

Men employed in the DOMESTIC, SUB-BITUMINOUS and BITUMINOUS COAL Fields as at December 31, 1931:

Kind of Coal	BELOW GROUND										ABOVE GROUND										Total Above and Below Ground				
	Officials	Hand Cutters	Machine Cutters & Helpers	Machine Loaders	Chute Loaders	Horse H'ge Employees	Mechanical H'ge Emp's	Ventilation Employees	Roadmakers	Timbermen	Pumpmen	Other Employees	Total Underground	Administration	Foremen and Clerks	Screenmen and Loaders	Enginemen	Firemen	Machinists	Carpenters and Masons		Other Mechanics	Surface Haulage	All other Employees	Total Above Ground
Domestic	299	702	405	2,441	.....	470	139	37	112	142	19	132	4,898	82	101	501	91	34	31	22	36	29	309	1,236	6,134
Sub-Bituminous	27	199	26	106	31	26	15	6	6	14	.....	8	464	21	17	99	32	26	7	5	3	126	345	809	
Bituminous	98	1,241	.....	.....	119	116	173	32	49	118	22	170	2,138	23	51	232	48	49	28	22	40	36	255	824	2,962
Total	424	2,142	431	2,547	150	612	327	75	167	274	41	310	7,500	126	209	832	171	109	66	49	85	68	690	2,405	9,905

THE MINES BRANCH

Number of men employed in the DOMESTIC FIELD as at December 31, 1931:

Area	BELOW GROUND										Total Underground	ABOVE GROUND										Total Above and Below Ground			
	Officials	Hand Cutters	Machine Cutters & Helpers	Machinery	Machine Loaders	Horse H'ge Employees	Mechanical H'ge Emp's	Ventilation Employees	Roadmakers	Timbermen		Pumpmen	Other Employees	Adminis-tration	Foremen and Clerks	Screenmen and Loaders	Enginemen	Firemen	Machinists	Carpenters and Masons	Other Mechanics		Surface Haulage	All Other Employees	Total Above Ground
Ardley	10	14	2	9	1	1	1	1	1	1	1	87	2	1	3	1	1	1	1	1	1	1	2	9	46
Big Valley	16	7	2	1	1	1	1	1	1	1	1	15	1	1	1	1	1	1	1	1	1	1	1	8	18
Brooks	2	8	1	1	1	1	1	1	1	1	1	10	4	2	10	2	2	2	1	1	1	1	1	8	13
Camrose	2	65	11	128	6	3	1	1	3	1	2	76	4	4	14	2	2	1	1	1	1	1	24	100	
Carbon	16	19	11	1	1	1	1	1	1	1	1	206	4	2	14	2	2	1	1	1	1	25	53	259	
Castor	29	79	1	1	1	1	1	1	1	1	1	113	9	1	1	2	2	2	1	1	1	3	17	150	
Champion	10	38	1	1	1	1	1	1	1	1	1	49	1	1	1	2	2	1	1	1	1	8	17	53	
Drumheller	91	11	189	1,616	249	42	13	73	38	7	76	2,305	25	49	198	23	11	10	7	17	6	93	439	2,744	
Edmonton	41	279	36	229	49	14	4	21	53	2	38	746	13	15	48	21	4	2	8	5	3	40	157	903	
Gleichen	3	4	1	2	1	1	1	1	1	1	1	12	1	1	1	1	1	1	1	1	1	1	1	14	
Halcourt	3	11	1	1	1	1	1	1	1	1	1	14	1	1	1	1	1	1	1	1	1	1	1	14	
Lethbridge	46	83	152	477	128	67	18	10	63	10	13	1,067	6	21	115	25	15	14	6	14	3	100	319	1,356	
Magrath	3	6	1	1	1	1	1	1	1	1	1	9	2	2	7	1	1	1	1	1	1	1	4	13	
Milk River	2	5	1	1	1	1	1	1	1	1	1	8	1	1	1	1	1	1	1	1	1	1	8	16	
Pakowki	6	6	1	1	1	1	1	1	1	1	1	12	1	1	1	1	1	1	1	1	1	1	1	14	
Pembina	6	19	5	48	4	12	4	2	4	2	1	100	3	4	20	6	2	3	1	1	1	6	45	145	
Redcliff	2	2	4	23	5	1	1	1	3	1	1	38	6	1	7	1	1	1	1	1	1	2	10	48	
Sheerness	9	20	4	7	1	1	1	1	1	1	1	30	6	1	23	1	1	1	1	1	1	12	45	75	
Taber	10	17	2	7	1	1	1	1	1	1	1	35	1	10	1	1	1	1	1	1	1	2	18	32	
Tofield	2	9	1	1	1	1	1	1	1	1	1	12	2	6	44	2	2	2	1	1	2	4	61	73	
Wetaskiwin	1	2	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	3	
Total	299	702	405	2,441	470	139	37	112	142	19	132	4,898	82	101	501	91	34	31	22	36	29	309	1,236	6,134	





THE MINES BRANCH

Men employed above and below ground in the DOMESTIC FIELD by areas each month:

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Monthly Average
Ardley .....	80	26	19	7	14	15	16	16	21	33	51	46	24
Big Valley .....	15	15	12	9	9	4	4	4	8	9	11	11	10
Brooks .....	10	7	7	5	4	4	4	4	9	13	15	13	8
Camrose .....	74	52	50	37	35	27	35	45	66	72	98	100	58
Carbon .....	251	212	192	144	135	127	128	165	178	237	268	259	179
Castor .....	97	77	66	28	28	19	26	26	34	55	121	130	53
Champion .....	31	32	29	23	23	13	20	22	46	59	56	53	35
Drumheller .....	3,366	2,550	1,754	974	748	703	697	1,084	2,398	2,692	2,899	2,744	1,873
Edmonton .....	825	577	530	398	328	332	322	367	619	715	381	903	585
Gleichen .....	9	9	6	5	5	4	4	4	8	10	17	13	7
Halcourt .....	6	4	.....	.....	.....	.....	2	4	7	10	13	14	8
Lethbridge .....	1,518	1,346	1,313	1,268	1,173	843	868	939	1,213	1,320	1,422	1,386	1,217
Magrath .....	6	5	4	7	6	6	6	7	7	12	22	13	8
Milk River .....	10	10	9	6	38	6	7	5	12	13	23	16	13
Pakowki .....	10	7	9	1	2	3	1	1	8	15	15	14	7
Pembina .....	164	163	141	136	135	132	47	88	123	133	141	145	129
Redcliff .....	49	45	47	46	37	39	37	35	41	51	48	48	42
Rochester .....	5	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5
Sexsmith .....	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
Sheerness .....	60	64	27	24	26	60	52	32	44	72	65	75	50
Taber .....	46	35	27	32	19	19	28	25	47	69	88	68	42
Tofield .....	67	71	67	69	77	68	74	76	57	59	67	73	68
Wetaskiwin .....	2	2	2	4	4	.....	.....	.....	.....	.....	.....	.....	3
Whitecourt .....	3	3	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
Total.....	6,656	5,319	4,313	3,213	2,895	2,363	2,314	2,953	4,997	5,584	6,254	6,134	4,413

Men employed above and below ground in the SUB-BITUMINOUS Field by areas each month:

Coalspur .....	660	445	365	313	346	288	398	415	497	502	496	490	435
Pekisko .....	5	9	9	3	3	3	3	3	4	4	6	10	5
Pincher .....	9	13	13	12	9	6	6	6	20	18	19	16	12
Prairie Creek .....	65	54	43	52	65	73	81	96	112	113	135	143	86
Saunders .....	145	73	89	47	72	45	103	119	145	160	162	150	109
Total.....	881	594	519	427	495	405	592	639	778	797	818	809	647

Men employed above and below ground in the BITUMINOUS Field by areas each month:

Cascade .....	322	320	315	311	307	314	319	317	312	314	312	298	313
Crow's Nest .....	1,967	1,943	1,820	1,828	1,677	1,603	1,599	1,599	1,625	1,635	1,646	1,644	1,715
Mountain Park .....	779	754	748	719	702	694	647	648	642	663	701	734	703
Nordegg .....	336	334	334	303	307	306	286	254	232	241	280	286	292
Total.....	3,404	3,351	3,217	3,161	2,993	2,917	2,851	2,818	2,811	2,853	2,939	2,962	3,023

Number of men employed above and below ground in the DOMESTIC, SUB-BITUMINOUS and BITUMINOUS Fields each month:

Domestic .....	6,656	5,319	4,313	3,213	2,835	2,363	2,314	2,953	4,937	5,584	6,254	6,134	4,413
Sub-Bituminous .....	881	594	519	327	495	405	502	339	778	797	818	809	647
Bituminous .....	3,404	3,351	3,217	3,161	2,993	2,917	2,851	2,818	2,811	2,853	2,939	2,962	3,023
Total.....	10,941	9,264	8,049	6,801	6,323	5,685	5,757	6,410	8,526	9,234	10,011	9,905	8,083

## THE MINES BRANCH

## PER CAPITA PRODUCTION OF MINES IN THE PROVINCE.

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed under-ground	Tons of coal mined per man employed under-ground
1906	1,385,000	2,800	494	2,000	692
1907	1,834,745	3,600	509	2,700	679
1908	1,845,000	3,780	488	2,681	688
1909	2,174,329	5,207	417	3,893	566
1910	3,086,757	5,818	504	4,090	742
1911	1,694,564	6,689	253	4,517	375
1912	3,446,349	6,661	517	4,861	708
1913	4,306,346	8,068	533	5,837	737
1914	3,821,739	8,170	467	6,052	631
1915	3,434,891	6,445	532	4,493	764
1916	4,648,604	7,570	614	5,536	839
1917	4,863,414	8,310	595	6,047	804
1918	6,148,620	8,318	697	6,141	1,001
1919	5,022,412	7,573	663	5,150	958
1920	6,908,923	9,688	712	6,551	1,055
1921	5,937,195	10,018	592	7,203	824
1922	5,976,432	8,757	683	6,154	971
1923	6,866,923	9,927	687	7,249	893
1924	5,203,713	7,317	711	5,299	932
1925	5,833,394	8,774	670	6,498	834
1926	6,508,903	8,763	743	6,569	991
1927	6,936,780	9,016	768	6,681	970
1928	7,334,179	9,496	772	6,625	1,107
1929	7,147,250	9,572	747	7,115	1,004
1930	5,755,911	8,889	648	6,607	871
1931	4,563,309	8,070	577	5,969	701

## PER CAPITA PRODUCTION OF MINES IN THE DOMESTIC COAL FIELD.

1910	878,011	2,307	380	1,676	524
1911	964,700	3,548	271	2,488	391
1912	1,341,389	2,980	450	2,283	587
1913	1,763,225	4,017	438	2,929	601
1914	1,697,401	4,219	402	3,190	532
1915	1,682,922	3,181	529	2,210	761
1916	2,172,801	4,132	525	3,137	692
1917	2,537,829	4,701	539	3,489	727
1918	3,035,061	4,896	619	3,420	887
1919	2,611,009	4,226	617	2,953	884
1920	3,359,308	5,173	647	3,723	902
1921	2,943,141	5,601	525	4,256	691
1922	3,086,669	4,981	620	3,752	823
1923	3,161,741	4,969	636	3,765	812
1924	3,096,660	4,543	631	3,447	898
1925	3,156,359	4,874	647	3,750	808
1926	3,160,029	4,798	653	3,714	816
1927	3,357,171	4,663	720	3,603	891
1928	3,373,200	4,810	702	3,700	873
1929	3,385,749	4,944	685	3,813	880
1930	2,874,090	4,822	596	3,756	765
1931	2,245,563	4,400	501	3,419	628

## PER CAPITA PRODUCTION OF MINES IN THE SUB-BITUMINOUS COAL FIELD.

Year		Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
1922.....	Stp. Pit	367,514	217	1,692	.....	.....
	B. Grd.	179,500	403	446	277	648
1923.....	Stp. Pit	288,467	190	1,513	.....	.....
	B. Grd.	174,994	354	494	260	673
1924.....	Stp. Pit	369,724	211	1,752	.....	.....
	B. Grd.	222,222	393	565	278	799
1925.....	Stp. Pit	335,993	162	2,074	.....	.....
	B. Grd.	245,842	461	533	326	754
1926.....	Stp. Pit	258,964	147	1,761	.....	.....
	B. Grd.	231,407	443	545	305	758
1927.....	Stp. Pit	304,584	193	1,583	.....	.....
	B. Grd.	290,606	478	608	321	905
1928.....	Stp. Pit	394,682	179	2,205	.....	.....
	B. Grd.	345,810	645	536	467	756
1929.....	Stp. Pit	319,764	163	1,962	.....	.....
	B. Grd.	348,344	585	595	402	866
1930.....	Stp. Pit	304,144	157	1,937	.....	.....
	B. Grd.	299,187	569	526	390	767
1931.....	Stp. Pit	280,251	161	1,803	.....	.....
	B. Grd.	191,138	486	393	336	569

## PER CAPITA PRODUCTION OF MINES IN THE BITUMINOUS COAL FIELD.

1910.....	1,896,961	2,981	636	2,076	914
1911.....	649,745	2,645	246	1,820	357
1912.....	1,926,371	3,243	594	2,353	818
1913.....	2,374,401	3,562	666	2,645	897
1914.....	1,953,367	3,529	553	2,632	742
1915.....	1,626,237	2,921	557	2,103	773
1916.....	2,335,259	3,142	743	2,258	1,034
1917.....	2,206,868	3,335	661	2,429	909
1918.....	2,982,334	3,636	820	2,597	1,109
1919.....	2,325,787	3,118	745	2,100	1,108
1920.....	3,410,021	4,228	809	2,711	1,202
1921.....	2,897,380	4,183	701	2,820	1,026
1922.....	2,214,273	3,034	729	2,084	1,062
1923.....	3,241,614	4,345	746	3,215	1,008
1924.....	1,515,107	2,171	698	1,574	966
1925.....	2,145,200	3,277	654	2,422	885
1926.....	2,858,508	3,375	847	2,550	1,121
1927.....	2,984,419	3,682	810	2,757	1,082
1928.....	3,215,431	3,862	832	2,468	1,302
1929.....	3,093,393	3,880	797	2,898	1,077
1930.....	2,278,490	3,341	682	2,461	926
1931.....	1,846,357	3,023	611	2,214	834

## PER CAPITA PRODUCTION OF MINES IN THE ANTHRACITE COAL FIELD.

1910.....	261,785	530	493	338	774
1911.....	80,119	500	160	209	333
1912.....	178,589	438	407	225	793
1913.....	168,720	489	345	263	641
1914.....	170,971	422	405	230	743
1915.....	125,732	343	366	180	698
1916.....	140,544	296	474	141	996
1917.....	118,717	284	418	129	920
1918.....	181,225	286	458	124	1,058
1919.....	85,616	229	374	95	901
1920.....	180,594	287	455	117	1,116
1921.....	96,674	284	341	127	761
1922.....	40,417	112	361	41	986
1923.....	107	69	1	9	12

## THE MINES BRANCH

The table showing the number of men employed in the Anthracite Coal Field includes employees at the briquetting plant. There has been no anthracite coal produced since 1923.

During the year 1909 a strike, affecting all the larger mines in the Province, lasted for a period of three months.

During the year 1911 a strike, affecting all the larger mines in the Province, lasted for a period of eight months.

During the year 1917 a strike, affecting all the larger mines in the Province, lasted for a period of three months.

During the year 1919 a strike, affecting all the larger mines in the Province, lasted for a period of three months.

During the year 1922 a strike, affecting all the larger mines in the Province, lasted for a period of five months.

During the year 1924 a strike, affecting all the larger mines in the Province, lasted for a period of six and a half months.

NOTE: In calculating the total per capita production for men employed underground, the tonnage mined from stripping pits was deducted and only the tonnage produced from mines was used.

It will also be noted that the tonnages used in the above and following tables do not include tonnage extracted under permit.

Per Capita Production of Mines by areas:  
DOMESTIC COAL FIELD

Areas	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
Ardley .....	10,578	24	441	18	589
Big Valley .....	3,344	10	334	8	418
Brooks .....	4,905	8	613	6	817
Camrose .....	41,194	58	710	46	895
Carbon .....	85,824	179	479	143	600
Castor .....	24,162	58	416	51	474
Champion .....	12,113	35	346	32	379
Drumheller .....	1,070,537	1,873	587	1,515	707
Edmonton .....	370,252	565	655	454	815
Gleichen .....	3,235	8	404	7	462
Halcourt .....	2,080	7	297	5	416
Lethbridge .....	358,361	1,212	287	927	539
Magrath .....	1,724	8	215	5	325
Milk River .....	3,879	13	298	8	486
Pakowki .....	1,615	7	231	6	269
Pembina .....	92,859	129	720	86	1,080
Redcliff .....	25,107	42	598	35	717
Rochester .....	225	5	45	4	56
Sexsmith .....	34	2	17	2	17
Sheerness .....	19,817	48	413	23	861
Taber .....	11,684	36	325	29	403
Tofield, Stripping .....	97,149	61	1,592	.....	.....
Tofield, Underground .....	4,643	7	663	5	928
Wetaskiwin .....	188	3	62	2	94
Whitecourt .....	54	2	27	2	27
Total.....	2,245,563	4,400	501	3,419	628

## SUB-BITUMINOUS

Coalspur, Stripping .....	280,251	161	1,803	.....	.....
Coalspur, Underground .....	117,817	274	430	188	627
Pekisko .....	873	5	175	3	291
Pincher .....	2,413	12	201	10	241
Prairie Creek .....	35,523	86	413	56	634
Saunders .....	34,512	109	323	79	437
Total.....	471,389	647	729	336	569

## BITUMINOUS

Areas	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed under-ground	Tons of coal mined per man employed under-ground
Cascade .....	166,297	313	531	229	726
Crow's Nest (East) .....	440,391	752	599	542	812
Crow's Nest (West) .....	511,579	963	554	742	689
Mountain Park .....	560,875	703	798	501	1,119
Nordegg .....	167,215	292	573	200	831
Total.....	1,846,357	3,023	611	2,214	834

## SUMMARY:

Domestic .....	2,245,563	4,400	501	3,419	628
Sub-Bituminous .....	471,389	647	729	336	569
Bituminous .....	1,846,357	3,023	61	2,214	834
Total.....	4,563,309	8,070	577	5,969	701

THE MINES BRANCH

Number of days on which Coal was drawn in the DOMESTIC FIELD by areas during each month:

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley .....	11.41	8.83	10.12	5.00	8.33	13.50	13.33	15.00	11.40	12.43	13.00	21.17	149.52
Big Valley .....	12.83	9.16	8.00	4.33	5.33	4.00	4.00	10.00	9.66	16.00	22.50	20.33	126.14
Brooks .....	22.50	24.00	24.00	25.00	23.00	7.00	15.00	26.00	26.00	25.00	24.00	21.00	262.50
Camrose .....	13.00	10.80	14.00	18.00	14.33	13.50	17.75	19.00	21.33	15.50	22.00	20.00	199.31
Carbon .....	15.12	12.29	12.41	8.61	6.27	4.50	5.50	7.82	12.91	19.00	20.31	17.06	143.17
Castor .....	14.37	10.69	12.19	9.20	9.00	7.55	6.55	7.82	14.25	18.70	20.66	20.34	151.32
Champion .....	16.43	16.12	15.75	12.75	12.75	10.66	13.75	12.62	17.30	23.50	18.30	17.00	186.93
Drumheller .....	10.33	8.50	13.48	8.88	11.54	8.67	8.43	14.17	17.15	11.14	17.79	12.34	137.42
Edmonton .....	17.07	14.46	18.07	12.56	11.11	9.70	11.25	11.39	17.39	20.34	21.37	20.75	185.78
Gleichen .....	16.66	14.33	21.00	19.33	15.00	9.50	8.50	14.50	25.00	25.00	24.33	23.00	216.12
Haicourt .....	18.00	9.00	7.00	.....	.....	.....	.....	2.50	11.00	17.33	21.00	16.66	102.49
Lethbridge .....	13.05	10.82	12.00	10.60	9.60	7.53	10.12	13.87	15.88	18.59	15.65	13.68	151.69
Magrath .....	13.00	7.50	13.50	9.00	13.50	13.66	13.00	13.66	15.00	24.00	21.00	21.66	178.48
Milk River .....	13.00	13.50	14.00	12.66	12.50	12.33	7.33	13.50	14.66	17.66	10.50	13.00	154.64
Pakowki .....	6.57	4.50	6.50	1.00	.....	.....	.....	11.00	14.66	18.50	13.16	14.50	90.39
Pembina .....	11.67	13.67	13.33	16.00	12.50	7.00	20.00	11.00	15.00	11.50	13.50	13.50	158.67
Redcliff .....	16.50	19.00	23.50	16.00	9.50	7.50	8.50	9.50	12.00	15.00	12.50	19.50	169.00
Rochester .....	16.00	16.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	32.00
Sexsmith .....	15.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15.00
Sheerness .....	14.50	12.40	13.54	10.41	11.10	7.75	8.91	11.20	15.00	24.56	22.63	16.16	168.16
Taber .....	12.69	9.87	10.91	8.40	5.60	4.10	5.60	10.00	16.91	19.14	16.21	13.33	132.76
Tofield .....	20.00	14.33	15.33	12.00	16.00	14.00	15.50	14.50	14.00	20.66	23.33	16.50	196.15
Wetaskiwin .....	6.00	7.00	3.00	3.00	2.00	.....	.....	.....	.....	5.00	16.00	20.00	62.00
Whitecourt .....	22.00	23.00	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	46.00
<b>Total.....</b>	<b>14.49</b>	<b>11.69</b>	<b>12.85</b>	<b>11.13</b>	<b>10.78</b>	<b>8.97</b>	<b>10.75</b>	<b>12.54</b>	<b>15.82</b>	<b>18.04</b>	<b>18.84</b>	<b>17.69</b>	<b>142.31</b>

Number of days on which Coal was drawn in the SUB-BITUMINOUS COAL Field by areas each month:

Coalspur .....	16.87	11.43	9.71	7.50	12.40	9.40	14.80	15.20	14.00	14.50	16.33	16.16	157.80
Pekisko .....	8.33	12.50	15.33	7.50	5.50	4.50	8.33	8.50	23.50	24.00	20.00	14.50	149.49
Pinehe .....	22.00	14.33	13.00	10.33	3.50	10.00	8.00	7.00	15.75	22.75	17.40	16.00	160.06
Prairie Creek .....	12.00	6.50	9.50	7.50	10.50	11.50	13.50	18.00	19.00	12.50	16.00	12.50	149.00
Saunders .....	5.00	4.00	5.50	5.00	4.00	6.00	2.33	7.00	4.00	8.00	8.50	7.50	66.83
<b>Total.....</b>	<b>12.14</b>	<b>9.75</b>	<b>10.61</b>	<b>7.57</b>	<b>7.18</b>	<b>8.38</b>	<b>9.39</b>	<b>11.14</b>	<b>17.25</b>	<b>16.35</b>	<b>15.65</b>	<b>13.33</b>	<b>136.64</b>



Number of days on which coal was drawn in the BITUMINOUS COAL Field by areas each month:

Cascade .....	16.50	17.00	18.50	19.50	18.50	18.50	17.50	17.00	18.50	16.50	17.50	214.00
Crow's Nest .....	12.10	11.43	13.25	12.89	13.25	11.37	9.50	11.47	12.11	14.00	12.77	147.64
Mountain Park .....	17.00	14.67	14.33	15.33	14.33	16.00	10.33	9.33	9.33	14.75	15.75	167.15
Nerdegg .....	13.00	9.00	11.00	10.00	11.00	11.00	6.00	6.00	12.00	17.00	18.00	134.00
Total.....	14.65	13.02	13.62	14.43	14.27	13.55	10.83	10.95	10.39	15.56	16.00	165.70

Number of days on which Coal was drawn each month:

Domestic .....	14.49	11.69	12.85	11.13	10.78	9.07	10.87	15.82	18.04	18.84	17.69	142.31
Sub-Bituminous .....	12.14	9.75	10.61	7.57	7.18	8.28	9.39	17.25	16.35	15.65	13.33	136.64
Bituminous .....	14.65	13.02	13.62	14.43	14.27	13.55	15.31	10.95	10.39	15.56	16.00	165.70
Total.....	13.76	11.48	12.36	11.04	10.74	10.30	11.89	14.67	14.93	16.68	15.67	148.22

## THE MINES BRANCH

Total number of shifts worked above and below ground by areas during each month for the six months ending June 30, 1931:  
DOMESTIC FIELD

Areas	January		February		March		April		May		June		Total Jan. to June	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Ardley .....	73	279	59	220	50	223	67	54	45	91	78	193	372	1,060
Big Valley .....	19	142	11	120	12	80	8	30	9	39	3	13	62	424
Brooks .....	70	173	48	121	51	108	50	73	26	53	26	50	271	578
Camrose .....	237	805	163	327	200	585	136	360	128	301	164	284	1,028	2,662
Carbon .....	2,245	2,245	395	1,670	404	1,935	265	973	186	699	133	233	1,961	7,755
Castor .....	1,144	1,144	105	606	138	404	46	244	34	131	16	185	542	3,035
Champion .....	73	405	68	352	46	361	38	223	40	239	59	125	324	1,815
Drumheller .....	7,211	26,794	4,787	14,264	5,186	16,978	3,069	7,101	2,582	5,065	2,399	4,838	25,334	75,040
Edmonton .....	2,637	11,244	1,974	7,451	2,158	8,581	1,427	4,856	1,220	3,661	1,194	3,054	10,310	38,847
Gleichen .....	43	129	38	99	53	84	25	84	25	53	26	27	210	481
Halcourt .....	2	101	.....	32	.....	7	.....	.....	.....	.....	.....	.....	.....	140
Lethbridge .....	4,776	9,892	4,922	5,590	4,146	7,878	3,505	5,526	3,149	4,093	2,618	3,576	23,116	36,595
Magrath .....	59	87	16	46	6	68	20	70	13	47	19	91	138	449
Milk River .....	21	112	20	82	21	120	25	79	18	43	12	66	286	501
Pakowki .....	15	44	29	64	17	56	1	71	3	15	12	8	67	193
Pembina .....	865	1,709	952	1,908	935	1,581	804	1,396	822	1,126	617	681	5,087	8,345
Redcliff .....	112	647	133	727	211	874	124	596	65	285	52	242	697	3,371
Rochester .....	16	32	16	64	.....	.....	.....	.....	.....	.....	.....	.....	.....	96
Saxsmith .....	30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
Sheerness .....	153	398	164	281	74	295	69	178	93	202	364	147	917	1,501
Stevenville .....	229	358	105	234	17	285	3	167	4	99	5	84	363	1,227
Torfield .....	1,299	1,500	1,095	90	1,082	99	1,344	30	1,956	6	1,718	2	8,494	3,511
Wetaskiwin .....	.....	12	.....	14	.....	6	.....	.....	.....	24	.....	.....	.....	121
Whitcourt .....	22	44	23	46	.....	2	.....	.....	.....	.....	.....	.....	45	92
Total.....	18,723	56,976	15,123	34,418	14,807	40,916	11,115	22,045	10,594	16,300	9,496	14,044	79,858	184,699

ANNUAL REPORT, 1931

Total number of shifts worked above and below ground by areas during each month for the six months ending December 31, 1931:  
DOMESTIC FIELD

Areas	July		August		September		October		November		December		Total for six months		Total for year 1931	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Ardley .....	96	222	83	200	122	335	242	428	258	688	194	779	995	2,652	1,367	3,712
Big Valley .....	3	13	5	35	8	63	30	105	44	186	60	283	150	685	212	1,109
Brooks .....	26	56	26	84	60	167	74	266	75	318	68	225	329	1,116	600	1,694
Camrose .....	188	309	280	416	263	800	315	789	516	1,577	506	1,623	2,068	5,514	3,096	8,176
Carbon .....	443	303	303	1,237	486	2,152	644	3,028	1,007	3,934	778	2,940	3,661	13,600	5,622	21,365
Castor .....	25	180	44	147	99	359	253	772	314	1,986	360	2,114	1,095	5,558	1,637	8,593
Champion .....	32	260	45	249	132	642	121	1,198	98	817	93	646	521	3,812	845	5,627
Drumheller .....	2,884	4,501	3,964	9,479	7,695	33,047	9,192	37,289	9,537	48,571	7,388	27,946	40,560	155,838	65,894	230,873
Edmonton .....	1,539	3,307	1,658	4,385	2,582	8,510	2,761	10,916	3,579	14,807	3,344	13,219	15,463	55,144	26,073	93,991
Gleichen .....	27	21	26	26	24	100	48	224	49	295	25	185	199	857	409	1,838
Halcourt .....	2	23	25	148	84	84	.....	.....	.....	264	4	223	29	742	31	1,882
Lethbridge .....	2,950	4,432	3,738	7,145	5,987	16,629	5,827	15,153	5,337	14,800	4,691	11,127	28,590	69,286	51,706	105,841
Marbath .....	23	80	30	89	53	195	59	163	86	186	186	176	340	789	478	1,238
Milk River .....	8	60	9	43	25	188	26	289	187	90	186	162	437	732	733	1,233
Pakowki .....	8	.....	11	47	15	47	48	233	70	175	26	102	167	576	234	1,759
Pemba .....	437	528	380	385	913	1,507	873	1,201	901	1,309	913	1,310	4,423	6,235	9,510	14,410
Redcliff .....	57	283	68	254	94	410	147	584	105	462	198	714	661	2,677	1,358	6,038
Rochester .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	32	36
Saxsmith .....	308	127	124	129	324	396	671	308	601	682	340	439	2,368	2,581	3,255	4,082
Taber .....	30	111	128	221	126	621	136	586	170	747	154	484	644	3,070	1,007	4,287
Tofield .....	1,948	4	1,927	3	1,319	38	1,343	146	1,346	233	1,289	184	9,172	608	17,686	989
Whitecourt .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Permits .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total .....	11,038	14,776	12,735	24,567	20,352	66,190	22,821	74,636	24,779	87,175	21,045	64,841	112,770	332,185	192,628	516,884

SUB-BITUMINOUS FIELD

Areas	January		February		March		April		May		June		Total Jan. to June	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
	Coalspur	6,314	4,335	4,518	1,994	4,013	1,277	3,666	983	5,302	679	3,709	851	27,522
Pekisko	27	39	46	84	37	56	12	39	8	11	3	9	133	238
Pincher	44	142	43	139	33	107	29	90	7	88	35	70	191	636
Prairie Creek	194	330	82	154	270	525	61	175	244	529	415	729	1,266	2,442
Saunders	296	629	261	264	186	341	150	143	192	118	164	171	1,249	1,666
Total	6,875	5,475	4,950	2,635	4,539	2,306	3,918	1,430	5,753	1,425	4,326	1,830	30,361	15,101

BITUMINOUS FIELD

Cascade	1,634	2,817	1,536	2,878	1,701	3,175	1,812	3,416	1,760	3,214	1,760	3,214	10,203	18,714
Crow's Nest	8,237	19,484	7,170	17,407	7,766	20,035	7,854	18,149	8,458	19,928	8,117	18,998	47,602	114,001
Mountain Park	5,226	10,817	5,737	7,714	4,627	9,711	5,079	7,810	4,172	8,251	4,102	8,271	28,943	52,574
Nordegg	2,814	3,368	2,087	2,445	1,755	2,721	1,939	2,437	1,989	2,496	2,046	2,626	12,630	16,093
Total	17,911	36,486	16,530	30,444	15,849	35,642	16,684	31,812	16,379	33,889	16,025	33,109	99,378	201,382

TOTAL DOMESTIC, SUB-BITUMINOUS AND BITUMINOUS FIELDS

Domestic	18,723	56,976	15,123	34,418	14,807	40,916	11,115	22,045	10,594	16,300	9,464	14,044	79,826	184,699
Sub-Bituminous	6,875	5,475	4,950	2,635	4,539	2,306	3,918	1,430	5,753	1,425	4,326	1,830	30,361	15,101
Bituminous	17,911	36,486	16,530	30,444	15,849	35,642	16,684	31,812	16,379	33,889	16,025	33,109	99,378	201,382
Total	43,509	98,937	36,603	67,497	35,195	78,864	31,717	55,287	32,726	51,614	29,815	48,983	209,565	401,182

Total number of shifts worked above and below ground by areas during each month for the six months ending December 31, 1931:  
SUB-BITUMINOUS COAL FIELD

Areas	July		August		September		October		November		December		Total for six months ending Dec. 31		Total for year 1931	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Coalspur .....	5,714	1,912	5,630	1,807	6,370	2,853	6,417	3,310	6,534	3,352	6,369	2,971	37,034	16,206	64,556	26,325
Pekisko .....	8	122	13	17	22	72	38	48	40	60	65	103	186	325	319	563
Pincher .....	3	102	95	95	233	118	303	303	65	228	53	180	326	1,144	517	1,780
Prairie Creek .....	630	806	871	1,138	939	1,482	780	1,535	812	1,917	869	1,554	4,901	8,482	6,167	10,924
Saunders .....	130	431	328	717	533	1,618	423	1,153	448	1,532	381	1,023	2,303	6,277	3,552	7,943
Total.....	6,545	3,283	6,849	3,824	7,944	6,258	7,776	6,349	7,899	6,889	7,737	5,831	44,750	32,434	75,111	47,535
<b>BITUMINOUS COAL FIELD</b>																
Cascade .....	1,702	2,998	1,656	2,979	1,585	2,491	1,593	2,870	1,435	2,465	1,321	2,656	9,492	16,459	19,695	35,173
Crow's Nest .....	8,160	19,039	7,020	14,490	7,998	12,747	7,293	13,407	7,652	16,097	7,196	15,255	44,329	92,035	91,931	205,036
Mountain Park .....	4,558	8,683	2,928	5,111	3,341	6,999	4,127	6,544	4,506	9,991	4,952	10,491	24,412	46,919	53,355	99,493
Nordegg .....	1,900	2,285	1,656	1,365	1,320	1,321	1,941	2,351	2,219	3,281	2,758	3,412	11,794	14,041	24,424	30,134
Total.....	16,320	33,005	13,260	23,965	13,344	23,658	14,864	25,176	15,812	31,834	16,427	31,814	90,027	169,454	189,405	370,836
<b>SUMMARY</b>																
Domestic .....	11,038	14,776	12,735	24,567	20,352	66,190	22,821	74,636	24,779	87,175	22,837	67,346	114,562	334,690	194,420	519,389
Sub-Bituminous .....	6,545	3,283	6,849	3,824	7,944	6,258	7,776	6,349	7,899	6,889	7,737	5,831	44,750	32,434	75,111	47,535
Bituminous .....	16,320	33,005	13,260	23,965	13,344	23,658	14,864	25,176	15,812	31,834	16,427	31,814	90,027	169,454	189,405	370,836
Total.....	33,903	51,064	32,844	52,356	41,640	96,106	45,461	106,163	48,490	125,898	47,001	104,991	249,339	536,578	458,936	937,760

## THE MINES BRANCH

Amount of Mine Timber used during the year:

## DOMESTIC COAL FIELD

Areas	Round Timber linear ft.	Lumber B.M.	Ties, linear feet	Lag- ging	Slabs Cords
Ardley .....	29,949	.....	.....	.....	.....
Big Valley .....	12,597	.....	.....	.....	.....
Brooks .....	40,000	.....	.....	.....	.....
Camrose .....	218,436	.....	.....	.....	.....
Carbon .....	397,574	.....	.....	.....	.....
Castor .....	93,465	.....	.....	.....	.....
Champion .....	67,693	2,000	.....	.....	.....
Drumheller .....	3,162,661	.....	97,460	.....	53
Edmonton .....	1,837,951	93,823	29,812	.....	55 ½
Gleichen .....	13,180	.....	.....	.....	.....
Halcourt .....	10,870	.....	.....	.....	.....
Lethbridge .....	1,756,732	762,592	25,057	.....	2 ½
Magrath .....	14,000	.....	.....	.....	.....
Milk River .....	17,205	.....	.....	.....	.....
Pakowki .....	7,325	.....	.....	.....	.....
Pembina .....	161,616	.....	16,700	.....	.....
Redcliff .....	45,282	.....	.....	.....	.....
Rochester .....	2,236	.....	.....	.....	.....
Sexsmith .....	100	.....	.....	.....	.....
Sheerness .....	26,270	.....	.....	.....	.....
Taber .....	21,836	1,200	.....	.....	.....
Tofield .....	6,777	.....	.....	.....	.....
Wetaskiwin .....	3,000	.....	.....	.....	.....
Total.....	7,946,755	859,615	169,029	.....	111

## SUB-BITUMINOUS

Coalspur .....	162,402	.....	.....	.....	54
Pekisko .....	4,545	.....	.....	.....	.....
Pincher .....	10,985	.....	.....	.....	.....
Prairie Creek .....	62,439	.....	.....	.....	.....
Saunders .....	184,257	4,500	24,600	28,000	.....
Total .....	424,628	4,500	24,600	28,000	54

## BITUMINOUS

Cascade .....	230,410	.....	.....	25,000	.....
Crow's Nest .....	1,807,473	560,765	2,100	322,555	.....
Mountain Park .....	687,375	.....	.....	.....	.....
Nordegg .....	758,932	.....	.....	.....	.....
Total.....	3,484,190	560,765	2,100	347,555	.....

Particulars of Lamps in the Domestic Coal Field:

	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931
Portable Electric Lamps, Edison Cap Type.....	940	1,063	1,000	807	780	744	1,207	1,592	1,800	2,627	2,530	2,581
Portable Electric Lamps, Ceag Hand Type.....	35	35	35	35	43	43	.....	.....	.....	.....	.....	.....
Portable Electric Lamps, Wico Cap Type.....	500	500	500	500	569	560	275	.....	.....	.....	.....	.....
Portable Electric Lamps, Oldham Cap Type.....	.....	.....	.....	.....	25	40	.....	.....	.....	.....	.....	.....
Portable Electric Lamps, Wolfe Cap Type.....	495	524	421	125	152	147	108	108	106	157	171	160
Safety Lamps, Wolfe Flame Type.....	.....	6	.....	3	6	8	4	3	.....	.....	.....	.....
Safety Lamps, Koehler Flame Type.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	1,770	2,123	1,956	1,470	1,575	1,542	1,594	1,703	1,906	2,784	2,701	2,807

Particulars of Lamps in the Sub-Bituminous Coal Field:

Portable Electric Lamps, Edison Cap Type.....	.....	.....	54	78	62	41	120	120	140	161	184	387
Safety Lamps, Wolfe Flame Type.....	.....	.....	.....	.....	.....	110	42	39	45	37	25	51
Total.....	.....	.....	54	78	62	151	162	159	185	198	209	438

Particulars of Lamps in the Bituminous Coal Field:

Portable Electric Lamps, Edison Cap Type.....	2,214	2,612	2,849	3,545	3,485	2,952	3,024	3,378	3,510	3,310	3,458	4,458
Portable Electric Lamps, Wheat Electric Cap Type.....	.....	.....	.....	.....	.....	.....	.....	.....	11	12	.....	.....
Portable Electric Lamps, Wolfe Electric Cap Type.....	71	71	71	.....	.....	.....	.....	.....	20	20	20	7
Portable Electric Lamps, General Electric Cap Type.....	.....	.....	7	47	.....	.....	.....	.....	.....	.....	.....	.....
Portable Electric Lamps, Oldham Cap Type.....	1,441	1,301	1,218	1,186	894	703	554	633	468	363	345	353
Safety Lamps, Wolfe Flame Type.....	.....	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	.....
Safety Lamps, Koehler Flame Type.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	3,726	3,984	4,147	4,778	4,379	3,655	3,578	4,019	4,019	3,705	3,823	4,818

## THE MINES BRANCH

Quantity of Explosives used in pounds for blasting coal:  
DOMESTIC COAL FIELD

Areas	Name of Explosive								Total	
	Black Powder	Pellet Powder	Coalite G.	Monobel No. 4	Monobel No. 12	Stumping Powder	40% Dynamite	30% Polar Am. Dynamite		Miner's Friend No. 9
Ardley .....		6,552		105						6,657
Big Valley .....		1,025								1,025
Brooks .....		6,020								6,020
Camrose .....					320					320
Carbon .....		23,012					35			23,047
Castor .....		5,880					5			5,885
Champion .....		10,059								10,059
Drumbeller .....	671	172,952		3,162	7,763		1,040		650	186,238
Edmonton .....	2,265	23,682			25,310	1,423			2,574	55,254
Gleichen .....		1,325								1,325
Halcourt .....		1,875								1,875
Lethbridge .....		37,054		16,395				1,200		54,649
Magrath .....		900		600						1,500
Milk River .....		4,190			4,000					8,190
Pakowki .....		630		14				140		784
Pembina .....			2,000		5,628					7,628
Redcliff .....		5,418			803					6,221
Sheerness .....		8,463								8,463
Taber .....		3,369			356					3,725
Tofield .....	7,725					200	50			7,975
Wetaskiwin .....		200								200
<b>Total .....</b>	<b>10,661</b>	<b>312,606</b>	<b>2,000</b>	<b>20,276</b>	<b>44,180</b>	<b>1,623</b>	<b>1,130</b>	<b>1,340</b>	<b>3,224</b>	<b>397,040</b>

## SUB-BITUMINOUS COAL FIELD

Areas	Name of Explosive						Total	
	Pellet Powder	Monobel No. 4	Miner's Friend No. 9	Monobel No. 6	Monobel No. 12	Polar 35% Dynamite		60% Dynamite
Coalspur .....	150	28,565			1,100	61,300	450	91,565
Pekisko .....		275						275
Pincher .....		1,160		49				1,209
Prairie Creek .....	2,381	13,521			2,591			18,496
Saunders .....	3,993		3,778		700			8,471
<b>Total.....</b>	<b>6,524</b>	<b>43,521</b>	<b>3,778</b>	<b>49</b>	<b>4,394</b>	<b>61,300</b>	<b>450</b>	<b>120,016</b>

## BITUMINOUS COAL FIELD

Areas	Name of Explosive			Total
	Monobel No. 4	Monobel No. 6	Monobel No. 12	
Cascade .....	40,616	6,100	100	46,816
Crow's Nest .....	32,896	8,900		41,796
Mountain Park .....	28,178	48,480		76,658
Nordegg .....	7,200			7,200
<b>Total.....</b>	<b>108,890</b>	<b>63,480</b>	<b>100</b>	<b>172,470</b>



Number of tons of coal produced per pound of Explosive used for  
blasting coal:

## DOMESTIC COAL FIELD

Areas	Number of tons mined	Number of pounds of explosive used	Tons of Coal mined per pound of explo- sive used
Ardley .....	10,578	6,657	1.60
Big Valley .....	3,344	1,025	2.24
Brooks .....	4,905	6,020	.81
Camrose .....	41,194	320	129.00
Carbon .....	85,824	23,047	3.72
Castor .....	24,162	5,885	4.11
Champion .....	12,113	10,059	1.24
Drumheller .....	1,070,537	186,238	5.74
Edmonton .....	370,252	55,254	6.71
Gleichen .....	3,235	1,325	2.44
Halcourt .....	2,080	1,875	1.11
Lethbridge .....	358,361	54,649	6.56
Magrath .....	1,724	1,500	1.15
Milk River .....	3,879	8,190	.47
Pakowki .....	1,615	784	2.06
Pembina .....	92,859	7,628	12.17
Redcliff .....	25,107	6,221	4.03
Rochester .....	225	.....	.....
Sexsmith .....	34	.....	.....
Sheerness .....	19,817	8,463	2.34
Taber .....	11,684	3,725	3.11
Tofield .....	101,792	7,925	12.86
Wetaskiwin .....	188	200	.94
Whitecourt .....	54	.....	.....
Total.....	2,245,563	397,040	5.66

## SUB-BITUMINOUS COAL FIELD

Coalspur .....	408,068	91,565	4.45
Pekisko .....	873	275	2.17
Pincher .....	2,413	1,209	2.00
Prairie Creek .....	35,523	18,496	1.97
Saunders .....	34,512	8,471	4.07
Total.....	471,389	120,016	3.93

## BITUMINOUS COAL FIELD

Cascade .....	166,297	46,816	3.55
Crow's Nest .....	951,970	41,796	22.77
Mountain Park .....	560,875	76,658	7.32
Nordegg .....	167,215	7,200	23.22
Total.....	1,846,357	172,470	10.70

## THE MINES BRANCH

Estimated number of shots fired for Blasting Coal:

## DOMESTIC COAL FIELD

Areas	Electric Deton- ator	Electric Squibs	Fuse	Squibs	Total
Ardley .....	.....	.....	6,165	.....	6,165
Big Valley .....	.....	.....	1,464	.....	1,464
Brooks .....	.....	.....	1,090	1,900	2,990
Camrose .....	702	.....	30	.....	732
Carbon .....	.....	.....	25,800	300	26,100
Castor .....	.....	.....	6,029	.....	6,029
Champion .....	.....	.....	11,766	.....	11,766
Drumheller .....	24,780	40,769	96,334	.....	161,883
Edmonton .....	3,935	2,863	49,046	.....	55,844
Gleichen .....	.....	.....	1,730	.....	1,730
Halcourt .....	.....	.....	1,065	.....	1,065
Lethbridge .....	22,792	25,000	540	10,303	58,635
Magrath .....	.....	.....	2,170	.....	2,170
Milk River .....	.....	.....	4,404	2,080	6,484
Pakowki .....	.....	.....	270	780	1,050
Pembina .....	7,796	.....	.....	.....	7,796
Redcliff .....	1,005	560	70	2,340	3,975
Rochester .....	.....	.....	.....	.....	.....
Sheerness .....	.....	.....	9,398	.....	9,398
Taber .....	135	.....	884	4,282	5,301
Tofield .....	.....	.....	4,471	.....	4,471
Wetaskiwin .....	.....	.....	400	.....	400
<b>Total.....</b>	<b>61,145</b>	<b>69,192</b>	<b>228,718</b>	<b>21,985</b>	<b>3,804,808</b>

## SUB-BITUMINOUS COAL FIELD

Coalspur .....	30,096	.....	247	.....	30,343
Pekisko .....	.....	.....	335	.....	335
Pincher .....	1,492	.....	.....	.....	1,492
Prairie Creek .....	19,965	.....	.....	.....	19,965
Saunders .....	.....	.....	7,051	.....	7,051
<b>Total.....</b>	<b>51,553</b>	.....	<b>7,633</b>	.....	<b>59,186</b>

## BITUMINOUS COAL FIELD

Cascade .....	69,362	.....	.....	.....	69,362
Crow's Nest .....	27,915	.....	60	.....	27,975
Mountain Park .....	73,047	.....	.....	.....	73,047
Nordegg .....	18,000	.....	.....	.....	18,000
<b>Total.....</b>	<b>188,324</b>	.....	<b>60</b>	.....	<b>188,384</b>

Number of miss-fire shots recorded in blasting coal in the Province:

## DOMESTIC COAL FIELD

Areas	Electric Deton- ator	Electric Squibs	Fuse	Squibs	Total
Ardley .....			62		62
Big Valley .....			3		3
Camrose .....	4		2		6
Carbon .....			18		18
Castor .....			33		33
Champion .....			13		13
Drumheller .....	13	9	118		140
Edmonton .....	4	2	96		102
Gleichen .....			2		2
Halcourt .....			38		38
Lethbridge .....	3	52		3	58
Magrath .....			12		12
Milk River .....			3		3
Pakowki .....			1	1	2
Redcliff .....	1	23			24
Sheerness .....			18		18
Taber .....			2		2
Tofield .....			4		4
Total.....	25	86	425	4	540

## SUB-BITUMINOUS COAL FIELD

Coalspur .....	6				6
Pekisko .....			1		1
Saunders .....			5		5
Total.....	6		6		12

## BITUMINOUS COAL FIELD

Cascade .....	6				6
Crow's Nest .....	12		3		15
Mountain Park .....	22				22
Total.....	40		3		43

## THE MINES BRANCH

Quantity of Explosives used in pounds for blasting rock in Coal-mines in the Province:

Areas	Name of Explosive										Total	
	Pellet Powder	Stumping Powder	Polar Force 35%	Polar Am. 40%	Dynamite	Polar Force 60%	Polar Am. 60%	CXL-ITE No. 2	Monobel No. 4	Monobel No. 6		Monobel No. 12
Ardley .....	25				16			25				66
Carbon .....				250								250
Cascade .....				105			1,656			584		2,740
Castor .....	25			862								887
Champion .....			425			14,800						40,935
Coalspur .....			2				110					6,176
Crow's Nest .....	10				5,483		614		7,011			14,868
Edmeston .....											1,800	365
Halcourt .....	850											850
Lethbridge .....	188								44			232
Magrath .....				250								250
Milk River .....												150
Mountain Park .....				45		3,510	14,670			8,500		26,725
Nordegg .....							300					300
Pakowki .....							50					50
Pekisko .....									100			100
Pincher .....									50			50
Prairie Creek .....												75
Redcliff .....												5
Saunders .....											200	200
Taber .....	125				200						30	355
Total.....	348	875	427	7,161	18,310	25,655	23,624	7,205	9,084	2,545	95,234	

Estimated number of shots fired for blasting rock in Coal Mines  
in the Province:

Areas	Electric Deton- ator	Fuse	Squib	Total
Ardley .....	.....	77	.....	77
Carbon .....	.....	510	.....	510
Cascade .....	3,890	.....	.....	3,890
Castor .....	.....	166	.....	166
Champion .....	.....	945	57	1,002
Coalspur .....	4,708	506	.....	5,214
Crow's Nest .....	6,049	3	.....	6,052
Drumheller .....	6,800	1,917	.....	8,717
Edmonton .....	.....	545	.....	545
Halcourt .....	.....	530	.....	530
Lethbridge .....	19	.....	155	174
Magrath .....	.....	400	.....	400
Milk River .....	.....	75	.....	75
Mountain Park .....	21,842	.....	.....	21,842
Nordegg .....	750	.....	.....	750
Pakowki .....	.....	50	.....	50
Pekisko .....	.....	112	.....	112
Pincher .....	60	.....	.....	60
Prairie Creek .....	198	.....	.....	198
Redcliff .....	.....	6	.....	6
Saunders .....	.....	400	.....	400
Taber .....	314	235	100	649
Total.....	44,630	6,477	312	51,419

Number of miss-fire shots recorded in blasting rock in Coal Mines  
in the Province:

Ardley .....	.....	1	.....	1
Castor .....	.....	2	.....	2
Champion .....	.....	4	.....	4
Crow's Nest .....	2	.....	.....	2
Drumheller .....	1	27	.....	28
Edmonton .....	.....	2	.....	2
Halcourt .....	.....	30	.....	30
Prairie Creek .....	5	.....	.....	5
Saunders .....	.....	2	.....	2
Total.....	8	68	.....	76

## ELECTRICITY

The rules for the Installation and Use of Electricity in or about mines require a return to be made to the Department on or before January 15th of each year, giving size, type and any other particulars which may be required of electrical apparatus in use above and below ground. According to the returns received from the different mines, electricity was used in 75 different mines in 1931. A summary of these returns regarding the horse-power of electrical apparatus in use is given below:

Areas	No. of Mines using Electricity	Horse-power of Electrical Apparatus in use		Total Horse-power
		Above Ground	Below Ground	
Ardley .....	1	.....	60	60
Big Valley .....	1	28	35	63
Camrose .....	1	17½	5	22½
Carbon .....	4	99½	228	327½
Cascade .....	1	705	175	880
Coalspur .....	6	1,013	200	1,213
Crow's Nest .....	7	10,831	2,205	13,036
Drumheller .....	28	3,225½	4,513	7,738½
Edmonton .....	6	642½	681	1,323½
Gleichen .....	1	.....	5	5
Lethbridge .....	5	1,122½	603½	1,726
Mountain Park .....	3	1,201	1,140	2,341
Nordeggr .....	1	1,200½	80	1,280½
Pembina .....	2	195	463½	658½
Prairie Creek .....	1	57	80	137
Redcliff .....	2	130	60	190
Saunders .....	3	112½	193	305½
Taber .....	2	15	75	90
Total.....	75	20,595½	10,802	31,397½

## COAL-CUTTING MACHINERY

Areas	No. of Machines operated by		Tons of Coal mined by	
	Electricity	Compressed Air	Electricity	Compressed Air
Ardley .....	1	.....	6,175	.....
Big Valley .....	1	.....	1,946	.....
Carbon .....	5	3	59,110	11,205
Castor .....	.....	1	.....	2,669
Coalspur .....	.....	7	.....	25,275
Drumheller .....	93	140*	.....	141,078
Crow's Nest .....	.....	1	.....	900
Edmonton .....	14	.....	991,557	.....
Gleichen .....	.....	1	208,058	.....
Lethbridge .....	4	85	47,125	233,611
Pembina .....	5	.....	63,321	.....
Prairie Creek .....	1	.....	17,036	.....
Redcliff .....	2	.....	25,112	.....
Saunders .....	2	13	9,000	23,105
Taber .....	3	.....	3,728	.....
Total.....	131	251	1,432,160	439,502

\*Compressed Air operated picks.

## ACCIDENTS

Summary table showing Accidents occurring in Mines during  
1906 to 1931 inclusive:

Year	Output	Accidents			Tons of Coal mined per accident		
		Fatal	Serious	Slight	Fatal	Serious	Slight
1906	1,385,000	10	11	20	138,500	125,909	60,250
1907	1,834,745	19	18	68	96,565	101,930	26,981
1908	1,845,000	11	38	13	167,727	48,552	141,923
1909	2,174,329	9	42	18	241,952	51,769	120,796
1910	3,036,757	61*	41	58	49,782	71,067	52,375
1911	1,694,564	7	32	45	242,080	52,955	37,656
1912	3,446,349	21	38	58	164,111	90,693	59,419
1913	4,306,346	23	60	83	152,789	71,772	51,883
1914	3,821,739	209†	44	50	18,286	86,857	76,434
1915	3,434,891	18	33	33	190,827	104,087	104,087
1916	4,638,604	20	51	34	232,430	91,149	136,723
1917	4,863,414	24	62	39	202,642	78,442	124,703
1918	6,148,620	22	60	77	279,483	102,477	79,860
1919	5,022,412	21	56	54	239,162	89,685	93,008
1920	6,908,923	29	53	38	238,733	130,371	181,814
1921	5,937,195	21	64	25	282,721	92,769	237,488
1922	5,976,432	35	38	35	170,755	157,274	170,755
1923	6,866,923	22	44	10	312,133	156,066	686,692
1924	5,203,713	21	42	40	247,796	123,898	130,093
1925	5,883,394	30	59	56	196,113	99,718	105,060
1926	6,508,908	39	67	119	166,398	97,148	54,696
1927	6,936,780	26	76	115	266,799	91,273	60,320
1928	7,334,179	23	71	122	261,935	103,298	60,166
1929	7,147,250	31	69	98	230,556	103,583	72,931
1930	5,755,911	11	69	97	523,265	83,419	59,339
1931	4,563,309	16	75	73	285,207	60,844	27,824
Total	122,685,687	789	1,313	1,378	155,623	93,439	89,032

\*Including thirty-one deaths caused by the Bellevue Explosion.

†Including one hundred and eighty-nine deaths caused by the Hillcrest Explosion.

Accidents during 1931, classified according to the coal field in  
which they occurred:

Domestic	2,245,563	11	48	56	204,142	46,783	40,099
Sub-Bituminous	471,389	.....	7	8	.....	67,341	58,924
Bituminous	1,846,357	5	20	9	369,271	92,318	205,151

## THE MINES BRANCH

Comparison of Accidents per 1,000,000 tons and per 1,000 men employed, 1915-1931:

Year	Tonnage	Total No. of men employed	Fatal Accidents			Serious Accidents			Slight Accidents			Total		
			No.	Per 1,000,000 tons	Per 1,000 men employed	No.	Per 1,000,000 tons	Per 1,000 men employed	No.	Per 1,000,000 tons	Per 1,000 men employed	No.	Per 1,000,000 tons	Per 1,000 men employed
1915	3,434,891	6,445	18	5.24	2.79	33	9.63	5.12	33	9.63	5.12	84	24.45	13.03
1916	4,538,604	7,570	20	4.31	2.64	51	10.99	6.74	34	7.33	4.49	105	22.61	13.87
1917	4,863,414	8,310	24	4.93	2.88	62	12.75	7.46	39	8.02	4.69	125	25.91	15.04
1918	6,148,620	8,774	22	3.57	2.51	60	9.95	6.84	77	12.52	8.78	159	25.85	18.12
1919	5,022,412	7,573	21	4.18	2.78	56	11.15	7.39	54	10.75	7.13	131	26.98	17.36
1920	6,908,923	8,688	29	4.20	2.99	53	7.81	6.10	38	6.50	4.37	120	17.32	13.81
1921	5,937,195	10,010	21	3.54	2.10	64	10.78	6.34	25	4.23	2.50	110	18.53	10.39
1922	5,975,432	8,547	35	5.86	4.09	38	6.36	4.35	35	5.36	3.09	108	18.07	12.64
1923	6,868,923	9,927	22	3.19	2.21	44	6.29	4.33	40	7.48	4.90	106	13.07	7.65
1924	5,203,713	7,317	21	4.03	2.86	42	8.20	5.74	56	9.52	6.38	109	19.79	14.35
1925	5,883,394	8,774	30	5.10	3.40	59	10.03	7.42	56	9.52	6.38	145	24.65	16.53
1926*	6,536,308	8,763	39	3.75	4.39	67	10.29	7.53	119	10.33	13.38	225	34.57	25.68
1927	6,336,780	3,016	26	3.82	2.96	71	9.68	8.43	115	16.30	12.71	217	31.28	24.06
1928	7,334,179	9,496	28	3.82	2.96	71	9.68	7.43	122	16.63	12.55	221	30.12	23.27
1929	7,147,250	9,572	31	4.34	3.24	69	9.65	7.21	98	13.71	10.24	198	27.70	20.30
1930	5,753,911	8,889	11	1.91	1.24	69	11.99	7.76	97	17.20	10.30	177	30.75	19.91
1931	4,563,309	8,070	16	3.51	1.98	75	16.44	9.27	73	16.00	9.04	164	35.92	20.32

\*Including 10 deaths by explosion at McGillivray Creek Coal &amp; Coke Co., Ltd.



## Number of tons produced per accident:

## DOMESTIC COAL-MINES

Area	Output	Average No. of men employed	No. of tons produced per accident			
			Fatal	Serious	Slight	Total
Ardley .....	10,578	24	.....	.....	10,578	10,578
Big Valley .....	3,344	10	.....	.....	3,344	3,344
Brooks .....	4,905	8	.....	.....	.....	.....
Camrose .....	41,194	58	.....	41,194	41,194	20,597
Carbon .....	85,824	179	42,912	42,912	.....	21,456
Castor .....	24,162	52	24,162	.....	24,162	12,081
Champion .....	12,113	35	.....	.....	12,113	12,113
Drumheller .....	1,070,537	1,873	267,634	44,606	39,649	19,464
Edmonton .....	370,252	565	123,417	32,750	20,570	11,570
Gleichen .....	3,235	8	.....	.....	.....	.....
Halcourt .....	2,080	7	.....	.....	.....	.....
Lethbridge .....	358,361	1,212	358,361	89,590	179,180	51,194
Magrath .....	1,724	8	.....	.....	.....	.....
Milk River .....	3,879	13	.....	.....	.....	.....
Pakowki .....	1,615	7	.....	.....	.....	.....
Pembina .....	92,859	123	.....	23,215	.....	23,215
Redcliff .....	25,107	42	.....	12,553	12,553	6,277
Rochester .....	225	5	.....	.....	.....	.....
Sheerness .....	19,817	48	.....	.....	.....	.....
Sexsmith .....	34	2	.....	.....	.....	.....
Taber .....	11,684	36	.....	.....	.....	.....
Tofield .....	101,792	68	.....	.....	50,896	50,896
Wetaskiwin .....	188	3	.....	.....	.....	.....
Whitecourt .....	54	2	.....	.....	.....	.....
Total.....	2,245,563	4,400	204,142	46,783	40,099	10,831

## SUB-BITUMINOUS COAL-MINES

Coalspur .....	398,068	435	.....	199,034	66,365	49,758
Pekisko .....	873	5	.....	.....	.....	.....
Pincher .....	2,413	12	.....	2,413	.....	2,413
Prairie Creek .....	35,523	86	.....	17,761	17,761	8,883
Saunders .....	34,512	109	.....	17,756	.....	17,756
Total.....	471,389	647	.....	67,341	58,924	32,426

## BITUMINOUS COAL-MINES

Cascade .....	166,297	313	.....	55,432	166,279	41,574
Crow's Nest (East) .....	440,391	752	440,391	146,797	146,797	62,913
Crow's Nest (West) .....	511,579	963	511,579	73,083	170,526	46,507
Mountain Park .....	560,875	703	186,958	112,175	180,437	56,087
Nordexg .....	167,215	292	.....	83,607	.....	83,607
Total.....	1,846,357	3,023	369,271	92,318	205,151	54,363

## SUMMARY

Domestic .....	2,245,563	4,400	204,142	46,783	40,099	10,831
Sub-Bituminous .....	471,389	647	.....	67,341	58,924	32,426
Bituminous .....	1,846,357	3,023	369,271	92,318	205,151	54,363
Total.....	4,563,309	8,070	285,207	60,844	62,511	27,824

## THE MINES BRANCH

Classification of Accidents according to outputs of mines which produced during the year 1931:

	Under 1,000 tons	From 1,000 to 5,000	From 5,000 to 10,000	From 10,000 to 50,000	From 50,000 to 100,000	From 100,000 to 150,000	From 150,000 to 200,000	Over 300,000	Total
Fatal .....	4	...	1	5	2	1	1	2	16
Serious .....	3	4	...	16	28	8	15	1	75
Slight .....	2	6	4	21	27	2	9	2	73
Total.....	9	10	5	42	57	11	25	5	164

Number of tons of coal extracted per accident in mines which produced during the year 1931:

	Under 1,000 tons	From 1,000 to 5,000	From 5,000 to 10,000	From 10,000 to 50,000	From 50,000 to 100,000	From 100,000 to 150,000	From 150,000 to 200,000	Over 300,000	Total
Fatal .....	14,918	...	82,486	165,156	599,175	480,054	1,496,629	152,437	285,207
Serious .....	13,891	28,865	...	51,611	42,798	60,007	99,775	304,874	60,844
Slight .....	23,536	19,243	20,621	39,323	44,883	240,027	166,292	152,437	62,523
Total.....	6,630	11,546	16,497	19,661	21,024	43,641	59,865	60,975	27,849

## FATAL ACCIDENTS DURING THE YEAR 1931

On January 8th, to M. P. Wicenty, a miner, aged 32 years, in the mine operated by the Rabbit Hill Collieries (W. E. Gibb) at White Mud Creek, near Edmonton, caused through a fall of rock in pillar workings. He was mining coal at the face of a skip when a large piece of rock fell from the roof, severely crushing him and causing instant death.

On February 17th, to Albert John Cross, a miner, aged 39 years, in the mine operated by the Hillcrest Collieries, Ltd., at Byron Creek, near Passburgh, caused through a pillar running out and burying him. He was working at re-timbering, when the pillar caved and ran out, burying him, the seam at this point pitching 63 degrees. He was dead when taken out some 29 hours later, death being caused through compound fracture of chest and lower ribs, which punctured the heart and lungs.

On February 26th, to Albert Fuller, a miner, aged 36 years, in the mine operated by Jos. H. Oliphant, near Carbon, caused through a fall of roof rock at the face of a room. He was loading coal. The place had been undercut by an electrically operated coal-cutting machine and the coal shot down. His attention had been called to a bad piece of roof, which apparently he neglected, as a large piece of rock fell, striking him. Crushed side, several ribs broken, bruise on forehead and roof of mouth punctured, from the effects of which he died in Drumheller hospital about 5 hours later.

On March 11th, to Nick Pleskon, a coal bucker, aged 49 years, in the mine operated by the Cadomin Coal Co., Ltd., at Cadomin, caused through asphyxiation by C.H.4. He had gone into a crosscut and was overcome by C.H. 4. He was dead when found. There was no response to artificial respiration, which was applied for over an hour.

On April 14th, to Edward E. Wood, part owner, aged 65 years, and Samuel Roberts, a miner, aged 49 years, in the mine known as the Ellerslie Collieries, operated by Harris & Wood at White Mud Creek, near Edmonton, caused through an explosion of C.H. 4. Messrs. Harris, Wood and Roberts went into the mine, which had been idle for two weeks. Harris and Roberts were mining coal, Wood building a stopping in a crosscut. Wood started to go to the face of the main entry, carrying an open light and safety lamp. Harris and Roberts, at the same time, fired a shot. The concussion of the shot caused some standing gas at the face of the main entry to surge and move out, and coming in contact with the open light carried by Wood, caused an explosion. Wood and Roberts were killed by being knocked down and overcome by C.O. Harris was slightly burned on face and hands, but got out of the mine.

On May 23rd, to Joseph Gandy, a miner, aged 32 years, in the mine operated by the International Coal & Coke Co., Ltd., at Coleman, caused through a fall of rock and coal. He was digging a post-hole, when a fall of cap-rock and coal buried him. He was severely crushed about the chest and shoulders. He died in the hospital about 1½ hours later.

On June 11th, to Harry Carretti, a miner, aged 51 years, in the mine operated by the Cadomin Coal Co., Ltd., at Cadomin, caused through fall of coal in pillar workings. He was working at the grizzly when a fall of coal occurred, burying him, causing instant death through suffocation.

On September 21st, to Martin Rapas, a miner, aged 43 years, in the mine operated by the Canadian Dinant Coal Co., Ltd., at Three Hills, caused through a fall of rock in pillar workings. He was taking a skip off the pillar at the entrance to a crosscut, barring down coal after firing a shot, when a large piece of rock fell from the roof onto his head and shoulders, crushing him to the floor. Lower jaws broken and skull fractured, causing instant death.

On October 6th, to Joseph Adams, a miner, aged 39 years, in the mine operated by the Murray Collieries, Ltd., at East Coulee, caused through a fall of rock at the face of a room. A large piece of rock fell from the roof. Right thigh and spine fractured, also internal injuries, causing instant death.

On October 16th, to Edward McGuckie, a miner, aged 40 years, in the mine operated by the Ideal Coal Co., Ltd., near Wayne, caused through a fall of rock while timbering on the entry. He, along with three other workmen, was repairing and timbering a large cave near the face of the

main entry when a broken timber gave way, causing a fall of rock, burying him and jamming him against the side of the entry. Left side of chest crushed and heart ruptured, causing instant death.

On October 26th, to Chester Gonczy, a hoistman, aged 20 years, at the mine operated by L. Gonczy and partners, near Diamond City, caused through his being caught between the rope and drum on hoist. He was operating a gasoline engine, hoisting coal up the surface slope, and apparently attempted to guide the rope onto the drum with his hand. His gloved hand was caught between the rope and drum, pulling him under the drum, through a space of 12 inches. He was dead when found.

On November 12th, to George Bergman, a miner, aged 53 years, in the mine operated by the Mountain Park Collieries, Ltd., at Mountain Park, caused through his being knocked down by a trip of loaded mine cars. He was walking out on his way home at the completion of shift, a trip of loaded cars, hauled by a spike team of horses, following him. He got confused, and stepped to the high side of the entry and was knocked down by the cars, falling between the cars and side of entry. Compound fracture of left leg with severe shock, from the effects of which he died in the hospital next day.

On November 12th, to Bjarnie Carlson, a miner, aged 20 years, in the mine operated by Enders and Sank, near Heisler, caused through a fall of rock in pillar workings. He, along with his partner, was taking out a pillar, when a fall of rock struck him on the back knocking him down, his head striking some loose lumps of coal on the floor. Skull crushed, from the effects of which he died some 10 hours later.

On November 24th, to Thomas Kuzuk, a driver, aged 27 years, in the mine operated by The Western Gem Coal Co., Ltd., near Drumheller, caused through his falling in front of a trip of loaded cars. He was driving a spike team of horses, hauling a trip of loaded cars. He was found beneath the first car, apparently having slipped off, and had been dragged under the car. He was dead when found.

On November 26th, to E. W. Gettling, a driver, aged 22 years, in the mine operated by the Hy-Grade Coal Co. of Drumheller, Ltd., at Drumheller, caused through his being crushed between a displaced timber and mine car. He was driving a horse hauling a loaded car and was riding on the front end. The horse knocked out a stringer, which fell and lodged across the entry, crushing him against the car. He died in the hospital on November 29th, after an operation for peritonitis and gangrenous appendix, brought on by rupture of the bowel when crushed between the timber and car.

In addition to the above, the following fatal accidents occurred in places where illegal mining was being carried on:

Steve Voytko was killed on March 11th by a fall of rock, whilst illegally mining coal on section 35, township 8, range 22, west of the 4th meridian.

V. Angelo was killed on May 26th. He had entered an abandoned mine in which there was a fire burning, his intention being to take out some rails.

Russell Rombough was killed on October 30th while illegally mining coal on the banks of the river near Taber, in section 30, township 10, range 16, west of the 4th meridian.

Andy Roes was killed on December 5th whilst illegally mining in a stripping pit in Nigger John Coulee, northeast of Bassano.

## Accidents as they occurred by months during the year 1931:

Months	Above Ground				Below Ground				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
January .....			1	1	1	9	4	14	15
February .....			1	1	2	6	8	16	17
March .....					1	6	4	11	11
April .....		2	2	4	2	3	2	7	11
May .....		2	2	4	1	3	3	7	9
June .....			1	1	1	3	4	8	9
July .....		2		2		3	2	5	7
August .....				2		6	1	7	9
September .....			1	1	1	7	7	15	16
October .....	1		2	3	2	8	12	22	25
November .....		1	1	2	4	5	6	15	17
December .....		1	1	2		10	6	16	18
Total.....	1	6	14	21	15	69	59	143	164

## Accidents occurring in the Province above and below ground during the year 1931:

Cause	Above Ground				Below Ground				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Haulage .....	1	2	1	4	3	23	18	44	48
Falls of Rock .....					7	18	7	32	32
Falls of Coal .....					2	9	4	15	15
Ignition of Gas .....					2		5	7	7
Asphyxiation .....					1			1	1
Shot-firing .....						4	4	8	8
Coal-cutting Machinery .....						3	4	7	7
Loading Coal .....						3	5	8	8
Loading Rock .....			1	1			1	1	2
Timbering .....						4	6	10	10
R.R. Cars .....		1	4	5					5
Miscellaneous .....		3	8	11		5	5	10	21
Total.....	1	6	14	21	15	69	59	143	164

## THE MINES BRANCH

Accidents occurring in the Province above and below ground for the year 1931, classified according to the area in which they occurred:

Area	Above Ground				Below Ground				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Ardley .....							1	1	1
Big Valley .....			1	1					1
Camrose .....						1	1	2	2
Carbon .....					2	2		4	4
Cascade .....		1		1		2	1	3	4
Castor .....					1		1	2	2
Champion .....			1	1					1
Coalspur .....	1		3	4		1	3	4	8
Crow's Nest (East).....			1	1	1	3	2	6	7
Crow's Nest (West).....						7	3	11	11
Drumheller .....	2		3	5	4	22	24	50	55
Edmonton .....	1		2	3	3	10	16	29	32
Lethbridge .....	1	1		2	2	3	2	5	7
Mountain Park .....			2	2	3	5		8	10
Nordegg .....						2		2	2
Pembina .....						4		4	4
Pincher .....						1		1	1
Prairie Creek .....						2	2	4	4
Redcliff .....			1	1		2	1	3	4
Saunders .....						2		2	2
Tofield .....							2	2	2
Total.....	1	6	14	21	15	69	59	143	164

Classification of Accidents according to the Coal Fields in which they occurred:  
DOMESTIC

Cause	Above Ground			Below Ground			Total Above and Below Ground
	Fatal	Serious	Slight	Fatal	Serious	Slight	
	Total	Total	Total	Total	Total	Total	
Rope Haulage, standing at foot of slope, struck by cars.....						1	1
Rope Haulage, caught by passing cars, crushed between side and cars.....						1	1
Rope Haulage, hand caught between rope and drum, pulled under drum.....	1						1
Endless Rope Haulage, slipped when placing grip.....					1		1
Horse Haulage, struck by derailed car.....					1		1
Horse Haulage, crushed between horse and car and struck by tail chain hook.....					1		1
Horse Haulage, fell in front of loaded trip.....				1			1
Horse Haulage, ran into standing cars.....					1		1
Horse Haulage, struck by displaced timber.....					3		3
Horse Haulage, horse stepped on foot.....					1		1
Horse Haulage, crushed between cars and side of entry.....					1		1
Horse Haulage, crushed between car and timber across entry.....					3		3
Storage battery, electric locomotive, head jammed between locomotive and timber.....				1			1
Storage battery, electric locomotive, leg jammed between locomotive and timber.....					1		1
Storage battery, electric locomotive, arm jammed between cars.....					1		1
Manual Haulage, arm jammed between car and timbers.....					1		1
Manual Haulage, struck by car on rock dump.....	1						1
Manual Haulage, leg jammed between cars.....					1		1
Manual Haulage, slipped and fell whilst pushing cars.....					4		4
Manual Haulage, hand pinched by derailed car.....					2		2
Manual Haulage, arm jammed between cars.....					1		1
Manual Haulage, struck by car.....					2		2
Fall of rock at face of entry.....					1	4	5
Fall of rock at face of room.....				2	9		11
Fall of rock in pillar workings.....				3			3
Fall of rock while erecting timber.....				1			1
Fall of rock while repairing cave.....					1		1
Fall of coal at face of entry.....					1		1
Fall of coal at face of room.....					3		3
Fall of coal in long wall face.....					1		1
Fall of coal in pillar workings.....					2		2
Ignition of gas by open lamp.....					1		1
Shot-firing, premature explosion of detonator.....					3		3
Shot-firing, failed to get clear of shot.....					2		2
Shot-firing, ignition of powder by open light.....					1		1
					2		2
					2		2

## DOMESTIC—Continued

Cause	Above Ground			Below Ground			Total Above and Below Ground
	Fatal	Serious	Slight	Fatal	Serious	Slight	
	Total	Total	Total	Total	Total	Total	
Electric coal-cutting machinery, struck by machine.....					1		1
Electric coal-cutting machinery, struck by bar.....					4		4
Electric coal-cutting machinery, leg caught between machine and car.....					1		1
Electric coal-cutting machinery, clothes caught in chain, pulled into sprocket.....					1		1
Loading coal, lump broke, fractured finger tip.....						1	1
Loading coal, struck by lump of coal.....						1	1
Loading coal, slipped and fell against car.....					1		1
Loading coal, hand jammed between lumps.....					1		1
Struck by flying coal from pick point, eye injured.....					1	2	3
Casing struck by derailed car.....					1		1
Loading rock, piece fell onto foot.....						1	1
Timbering, fell while carrying timber.....						1	1
Timbering, fall of timber while erecting same.....						1	1
Timbering, axe slipped, cutting hand.....					1		1
Timbering, axe slipped, cutting foot.....						1	1
Timbering, struck by hammer.....						1	1
Tracklaying, slipped, cutting hand.....						1	1
Pumping machinery, knee caught in gear.....		1					1
Carpenter shop, hand caught by rip saw.....		2					2
R.R. box car loading, struck by falling coal.....		1					1
R.R. cars, fell off top of car.....		1					1
Loading timber into mine car, slipped and fell.....		1					1
Picking table, piece of coal dropped onto foot.....		1					1
Blacksmith shop, anvil dropped onto foot.....		1					1
Walking on tippie, slipped and fell.....		1					1
Dumping coal on tippie, slipped.....		1					1
Cook shack burned.....		1					1
Total.....	1	4	8	13	10	44	102
							115

## SUB-BITUMINOUS

Manual Haulage, struck by derailed car.....							1
Manual Haulage, slipped and fell while pushing car.....					1		1
Steam Locomotive Haulage, crushed between hopper and engine.....							1
Fall of rock at face of room.....			1				1
Fall of rock while timbering in room.....						1	1
Fall of coal in pillar workings.....						1	1
Ignition of gas by open light.....						3	3
Struck by flying coal from pick, eye injured.....						1	1





## THE MINES BRANCH

Accidents during 1931, classified according to the Mine in the Domestic Field in which they occurred:

Name of Operator	Area	Above Ground			Below Ground			Total Above and Below
		Fatal	Serious	Slight	Fatal	Serious	Slight	
Super-Heat Coal Co., Ltd.	Ardley						1	1
Watson & Ross	Big Valley		1				1	1
W. J. Gotheridge & Sons	Camrose						2	2
Peerless Carbon Collieries	Carbon						1	1
Jos. H. Oliphant	Carbon						1	1
Canadian Dinant Coal Co., Ltd.	Carbon						1	1
Emile Morel & Sons	Carbon						1	1
Enders & Sank	Carbon						1	1
J. E. Wilkinson	Castor						1	1
M. Popovich	Champion						1	1
Newcastle Coal Co., Ltd.	Drumheller						1	1
Rosedale Coal Co., Ltd.	Drumheller						3	3
Rose-Deer Coal Mining Co., Ltd.	Drumheller		1				1	1
Midland Coal Mining Co., Ltd.	Drumheller		2				2	2
The Thomas Coal Co., Ltd.	Drumheller						4	4
The Great West Coal Co., Ltd.	Drumheller						1	1
Triangle Coal Company	Drumheller						1	1
Alberta Block Coal Co., Ltd.	Drumheller						8	8
Sovereign Coal Mining Co., Ltd.	Drumheller						2	2
Murray Collieries, Limited	Drumheller						4	4
Western Gem Coal Co., Ltd.	Drumheller						3	3
Hy-Grade Coal Co. of Drumheller, Ltd.	Drumheller						4	4
Elgin Coal Co., Ltd.	Drumheller						1	1
Ideal Coal Co., Ltd.	Drumheller						1	1
Aetna Coal Co., Ltd.	Drumheller						1	1
The Minute Coal Co.	Edmonton						1	1
Hancock-Jones Co.	Edmonton						1	1
Wm. Thomson	Edmonton						1	1
Great West Coal Co., Ltd.	Edmonton						5	5
Penn Coals, Ltd.	Edmonton		2				2	2
Marcus Coals, Ltd.	Edmonton						10	10
Premier Coal Co., Ltd.	Edmonton						2	2
Rabbit Hill Collieries (W. E. Gibb)	Edmonton						2	2
John Mather	Edmonton						1	1
Mike Simeski	Edmonton						1	1
Ellerslie Collieries (Harris & Wood)	Edmonton						1	1
Canadian Pacific Railway (Dept. Nat. Res.)	Lethbridge						2	2
Coal Producers, Ltd.	Lethbridge						2	2
L. Gonczy & Partners	Lethbridge						1	1
Cadillac Coal Co., Ltd.	Lethbridge						1	1
Coal Producers, Ltd.	Pembina						4	4



## LIST OF PROSECUTIONS UNDER THE COAL-MINES REGULATION ACT DURING 1931:

Mine in which Contravention was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
Super-Heat Coal Co., Ltd.	Mine Manager	Allowing powder to be stored in the mine.	Convicted	Fined \$5.00 and costs	\$1.75
McGillivray Creek Coal & Coke Co., Ltd.	Examiner and Shotlighter.	Failed to couple up cable to a detonator of a shot fired by him	Convicted	Fined \$50.00 and costs or 2 months	6.25
A. H. Rudd	Miner	Operating a mine without being holder of first or second class certificate of competency	Convicted	Fined \$10.00	9.50
Hillcrest Coll., Ltd. (Byron Creek)	Miner	Refusing to obey orders of Examiner.	Convicted	Fined \$50.00 or 2 months	10.10
Charles Farrell	Miner	Worked at working face without certificate.	Convicted	Fined \$5.00	1.00
Charles Farrell	Miner	Worked at working face without certificate.	Convicted	Fined \$5.00	1.75
Charles Farrell	Examiner	Failed to post copy of reports	Convicted	Fined \$5.00	1.75
Charles Farrell	Manager	Permitted men without certificates to work at working face	Convicted	Fined \$5.00	3.75
James Hamilton	Overman and Owner	Failed to have his mine under control and supervision of overman while being worked.	Convicted	Fined \$20.00	.....
W. G. Noble.	Miner	Did work at working face without a miner's certificate	Convicted	Fined \$1.00	.....
W. G. Noble.	Miner	Failed to give notice as required by Section 77 of Coal Mines Regulation Act of commencing the working of a mine	Convicted	Fined \$5.00	.....
W. G. Noble.	Miner	Failed to have underground workings of mine under charge of overman	Convicted	Fined \$5.00	1.25
G. H. Fraser	Miner	Failed to give notice under Section 77 of Coal Mines Regulation Act of opening a mine	Convicted	Fined \$5.00	.....
G. H. Fraser	Miner	Failed to have underground workings of mine under charge of overman, under the Act.	Convicted	Fined \$5.00	1.25
V. Corraimi	Owner	Failed to have overman in charge	Convicted	Fined \$5.00	1.00
C. Peroni	Owner	Failed to have overman in charge	Convicted	Fined \$5.00	1.00
Vanbesien & Duquesne	Miner	Went to work without copy of the inspection report being posted	Convicted	Fined \$3.00	1.50
Vanbesien & Duquesne	Pusher	Went to work without copy of the inspection report being posted	Convicted	Fined \$3.00	1.50
Vanbesien & Duquesne	Pusher	Worked at the face without a miner's certificate.	Convicted	Fined \$1.00	1.40
Brazeau Collieries, Ltd.	Miner	Leaving explosives in his working place.	Convicted	Fined \$5.00 or 10 days	2.50
Brazeau Collieries, Ltd.	Miner	Leaving explosives in his working place.	Convicted	Fined \$5.00 or 10 days	2.50
Super-Heat Coal Co., Ltd.	Miner	Making up explosive cartridge with lamp on head.	Convicted	Fined \$1.00	1.75
Bishop A. Wilson	Overman	Failing to make proper inspection and not posting copy of report of inspection.	Convicted	Fined \$25.00	14.40
Alexander Johnson	Miner	Entering mine before it was inspected by examiner	Convicted	Fined \$1.00	2.00
Alexander Johnson	Overman and Miner.	Failing to report accident	Convicted	Fined \$1.00	2.00

Superior Grade Coal Co., Ltd.	Machine man	Remained below ground more than 8 hours during 24 consecutive hours for purpose of his work, contrary to Sec. 27, C.M.R. Act	Convicted	Fined \$5.00	.....
Superior Grade Coal Co., Ltd.	Machine man	Failed to report his presence to person appointed under regulation 13 of regulations made pursuant to C.M.R. Act, requiring him to report his presence to such person	Convicted	Fined \$5.00	3.20
Superior Grade Coal Co., Ltd.	Machine man's helper	Remained below ground more than 8 hours during 24 consecutive hours for the purpose of his work, contrary to Sec. 27, C.M.R. Act	Convicted	Fined \$5.00	.....
Superior Grade Coal Co., Ltd.	Machine man's helper	Failed to report his presence to person appointed under regulation 13 of regulations made pursuant to C.M.R. Act requiring him to report his presence to such person	Convicted	Fined \$5.00	3.20
Superior Grade Coal Co., Ltd.	Driver	Had in his possession in the mine explosive without authority	Convicted	Fined \$5.00	.....
Superior Grade Coal Co., Ltd.	Driver	Had in his possession in the mine at one time more than 5 lbs. of explosives	Convicted	Fined \$5.00	3.20
Superior Grade Coal Co., Ltd.	Driller	Failed to return explosives at end of his shift to the place of storage outside of the mine	Convicted	Fined \$5.00	.....
Superior Grade Coal Co., Ltd.	Driller	Had in his possession more than 5 lbs. of explosives at one time and carried explosives in an open can, contrary to Sec. 87, Rule 6vi	Convicted	Fined \$5.00	.....
Superior Grade Coal Co., Ltd.	Driller	Did store explosives in the mine	Convicted	Fined \$5.00	.....
Superior Grade Coal Co., Ltd.	Driller	Remained below ground for more than 8 hours during 24 consecutive hours for the purpose of his work	Convicted	Fined \$5.00	.....
Superior Grade Coal Co., Ltd.	Driller	Did fire more than one shot at one time in coal contrary to Sec. 87	Convicted	Fined \$5.00	.....
Superior Grade Coal Co., Ltd.	Driller	Failed to report his presence to the person appointed under regulation 13 immediately before going below ground and immediately after returning from below ground	Convicted	Fined \$5.00	.....
Superior Grade Coal Co., Ltd.	Driller	Did fire more than one shot at one time contrary to Section 87	Convicted	Fined \$5.00	3.20
Superior Grade Coal Co., Ltd.	Driller	Did store explosives in the mine	Convicted	Fined \$5.00	.....
Superior Grade Coal Co., Ltd.	Driller	Had in his possession more than 5 lbs. explosives at one time and carried same in an open can, contrary to Section 87	Convicted	Fined \$5.00	.....
Superior Grade Coal Co., Ltd.	Driller	Failed to return explosives in his possession at end of shift to place of storage outside of the mine	Convicted	Fined \$5.00	.....
Superior Grade Coal Co., Ltd.	Driller	Failed to report his presence to the person appointed under regulation 13 immediately before going below ground and immediately after returning from below ground	Convicted	Fined \$5.00	.....
Superior Grade Coal Co., Ltd.	Driller	Remained below ground for more than 8 hours during 24 consecutive hours for the purpose of his work	Convicted	Fined \$5.00	.....
Superior Grade Coal Co., Ltd.	Driller	Employed more than five men in mine	Convicted	Fined \$5.00	3.20
Charles Strader	Operator	Employed more than five men in mine	Convicted	Fined \$5.00	1.00

LIST OF PROSECUTIONS UNDER THE COAL-MINES REGULATION ACT DURING 1931—Continued

Mine in which Contravention was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
Charles Strader	Operator	Operated without second outlet.	Convicted	Fined \$10.00	1.00
E. Morel & Sons	Overman	Failed to report accident.	Convicted	Fined \$5.00	2.50
Aetna Coal Co., Ltd.	Miner	Remained below ground for more than 8 hours during 24 consecutive hours for the purpose of his work, contrary to Sec. 27, C.M.R. Act.	Convicted	Fined \$5.00	2.75
Aetna Coal Co., Ltd.	Miner	Remained below ground for more than 8 hours during 24 consecutive hours for the purpose of his work, contrary to Sec. 27, C.M.R. Act.	Convicted	Fined \$5.00	2.75
Aetna Coal Co., Ltd.	Miner	Remained below ground for more than 8 hours during 24 consecutive hours for the purpose of his work, contrary to Sec. 27, C.M.R. Act.	Convicted	Fined \$5.00	2.75
Aetna Coal Co., Ltd.	Miner	Remained below ground for more than 8 hours during 24 consecutive hours for the purpose of his work, contrary to Sec. 27, C.M.R. Act.	Convicted	Fined \$5.00	2.75
Aetna Coal Co., Ltd.	Miner	Remained below ground for more than 8 hours during 24 consecutive hours for the purpose of his work, contrary to Sec. 27, C.M.R. Act.	Convicted	Fined \$5.00	2.75
Aetna Coal Co., Ltd.	Miner	Remained below ground for more than 8 hours during 24 consecutive hours for the purpose of his work, contrary to Sec. 27, C.M.R. Act.	Convicted	Fined \$5.00	2.75
Aetna Coal Co., Ltd.	Miner	Remained below ground for more than 8 hours during 24 consecutive hours for the purpose of his work, contrary to Sec. 27, C.M.R. Act.	Convicted	Fined \$5.00	2.75

In addition to the above a Mine Manager was prosecuted under Section 98 for failure to see that the provisions of The Coal-mines Regulation Act and the Rules, Regulations and Orders made thereunder were being complied with. The magistrate has not as yet given his decision in the case.

Number of Mines opened, abandoned, and re-opened according to Areas and Kind of Coal, during the year:

Area	Number	Character of Coal	No. of Mines in operation Dec. 31, '31	Mines opened during year	Mines re-opened during year	Mines closed but not abandoned	Mines abandoned during year	Name and Address of District Inspector of Mines
Ardley .....	1	Domestic .....	11	1	4	4	.....	B. Nugent, Camrose, Alta. Tele. No. 355
Big Valley .....	2	Domestic .....	5	.....	.....	.....	1	
Camrose .....	5	Domestic .....	5	.....	.....	.....	.....	
Carbon .....	6	Domestic .....	19	4	1	1	2	
Castor .....	8	Domestic .....	35	4	2	4	3	
Edmonton .....	15	Domestic .....	30	3	.....	1	2	
Halcourt .....	18	Domestic .....	4	1	1	.....	.....	
Rochester .....	35	Domestic .....	.....	.....	.....	1	.....	
Sexsmith .....	37	Domestic .....	.....	1	.....	1	.....	
Tofield .....	42	Domestic .....	4	.....	1	.....	.....	
Wetaskiwin .....	45	Domestic .....	1	1	.....	1	.....	
Whitecourt .....	46	Domestic .....	.....	1	.....	1	.....	
No Area .....	.....	Domestic .....	.....	.....	.....	.....	1	
Brocks .....	3	Domestic .....	2	.....	.....	.....	.....	
Champion .....	9	Domestic .....	11	3	1	.....	1	
Lethbridge .....	20	Domestic .....	20	.....	2	1	.....	
Magrath .....	21	Domestic .....	3	.....	.....	.....	.....	
Milk River .....	22	Domestic .....	4	1	1	.....	.....	
Pakowki .....	28	Domestic .....	7	.....	.....	1	1	
Pekisko .....	30	Sub-Bituminous .....	4	.....	1	.....	4	
Redcliff .....	34	Domestic .....	2	1	.....	.....	1	
Taber .....	41	Domestic .....	17	3	1	3	2	
Coalspur .....	11	Sub-Bituminous .....	6	.....	.....	2	.....	
Mountain Park .....	24	Bituminous .....	4	1	.....	.....	.....	Thos. Horne, Edson, Alta., Tele. 35, Residence
Pembina .....	31	Domestic .....	3	1	.....	.....	.....	
Prairie Creek .....	33	Sub-Bituminous .....	2	.....	.....	.....	.....	
West Crow's Nest .....	12	Bituminous .....	4	.....	.....	.....	.....	Moses Johnson, Blairmore, Alta. Tele. No. 70.
Cascade .....	7	Bituminous .....	2	.....	.....	.....	.....	W. G. Heeley, Blairmore, Alta. Tele. No. 70.
East Crow's Nest .....	13	Bituminous .....	6	.....	.....	.....	.....	
Nordegg .....	25	Bituminous .....	1	.....	.....	.....	.....	
Pincher .....	32	Sub-Bituminous .....	5	1	3	1	.....	
Saunders .....	36	Sub-Bituminous .....	3	.....	.....	.....	.....	
Drumheller .....	14	Domestic .....	29	3	2	6	5	A. B. Hunter, Drumheller, Alta. Tele. No. 413.
Gleichen .....	17	Domestic .....	3	.....	.....	.....	.....	
Sheerness .....	38	Domestic .....	18	3	1	1	3	
Stevenville .....	40	Domestic .....	1	1	.....	.....	.....	
Totals.....		Totals.....	271	34	22	29	26	

In addition to the above, Mr. James A. Richards, 11009 89th Ave., Edmonton, is acting in the capacity of General District Inspector of Mines, Telephone No. 32662.

## THE MINES BRANCH

## BOARD OF EXAMINERS

The constitution of the Board during the year 1931 was as follows:

As representing:

- (a) The Mine Inspectorate:  
Andrew A. Millar, Chief Inspector of Mines.
  - (b) Managers:  
Norman Fraser, Robert Livingstone.
  - (c) Working Miners:  
William Lammie, Evan Morgan.
- Secretary:  
James A. Richards.

Examinations were held during the year as follows: For Third Class at the following centres: Blairmore on May 5, 6, 7, 8 and 9; Cadomin on May 5, 6 and 7; Canmore on May 5; Drumheller on May 5, 6, 7 and 8; Edmonton on May 5, 6 and 7; Lethbridge on May 5, 6, 7 and 8, and at Luscar on May 5, 6, 7 and 8.

For First and Second Class on June 3, 4 and 5, at Blairmore, Cadomin, Drumheller and Edmonton.

For Mine Surveyor on June 5 at Blairmore, Drumheller and Nordegg.

Eighteen candidates presented themselves for examination for First Class Certificates, of whom four were successful. Thirty-one candidates presented themselves for examination for Second Class Certificates, of whom nine were successful. Eighty-three candidates presented themselves for examination for Third Class Certificates, of whom sixty-three were successful. Five candidates presented themselves for examination for Mine Surveyor, of whom two were successful.



The following is a list of names of persons to whom Final Certificates of Competency under The Coal-mines Regulation Act were granted during the year 1931:

## FIRST CLASS

Name	Address	Cert. No.	Date of Issue
Morris, William .....	Foothills .....	1	26-7-31
Millar, David .....	Edmonton .....	2	25-8-31
Morgan, Evan H. ....	Wayne .....	3	27-9-31

## SECOND CLASS

Barrie, John .....	Drumheller .....	8	26-7-31
Edwards, John .....	Cadomin .....	7	26-7-31
Goodwin, George W. ....	Bellevue .....	2	26-7-31
Goodwin, William .....	Bellevue .....	9	26-7-31
McDonald, Clyde P. ....	Bellevue .....	1	26-7-31
Thomson, John .....	Edmonton .....	4	26-7-31
Thomson, James .....	Drinnan .....	6	26-7-31
Wheatley, Frank M. ....	Banff .....	3	26-7-31
Wiltse, Donald H. ....	Forestburg .....	5	26-7-31

## THIRD CLASS

Birrell, William .....	Robb .....	1	29-1-31
Barrass, Thomas .....	Wayne .....	40	27-7-31
Baker, R. D. ....	Luscar .....	41	27-7-31
Barons, James .....	Drumheller .....	48	3-8-31
Clancy, James .....	Craigmyle .....	28	3-8-31
Chisholm, John A. ....	Luscar .....	37	22-8-31
Clyne, James M., Jr. ....	Edmonton .....	45	26-8-31
Dalziel, William .....	Clover Bar .....	14	26-7-31
Davies, W. E. ....	Hillcrest .....	16	26-7-31
Davidson, Robert M. ....	Coleman .....	33	26-7-31
Denholm, James .....	Mercoal .....	17	26-7-31
Davies, Richard .....	Luscar .....	42	26-7-31
Edwards, John .....	Cadomin .....	32	26-7-31
Evans, David E. ....	Luscar .....	46	27-7-31
Finkbiner, Henry .....	Scapa .....	30	26-7-31
Guisto, G. ....	Beazer .....	6	13-7-31
Graham, William .....	Coleman .....	19	26-7-31
Gotheridge, W. V. ....	Round Hill .....	26	26-7-31
Goodwin, Albert E. ....	Bellevue .....	43	26-7-31
Harrop, Wm. ....	Robb .....	2	29-1-31
Hogg, John .....	Foothills .....	22	13-7-31
Hadwell, Thomas C. ....	Blairmore .....	27	26-7-31
James, Albert J. ....	Forestburg .....	25	26-7-31
Jones, Douglas W. ....	Pincher Creek .....	49	27-9-31
Kiernan, Patrick .....	Robb .....	3	20-2-31
Leivers, Albert .....	Wayne .....	12	13-7-31
Morgan, Ernest .....	Blairmore .....	15	13-7-31
Madsen, S. ....	Luscar .....	39	26-7-31
McMurdo, Thomas .....	East Coulee .....	18	13-7-31
McLeod, Arthur .....	Drumheller .....	50	22-10-31
Negrello, Mike .....	Coalhurst .....	7	13-7-31
Price, Stanley R. ....	Blairmore .....	9	13-7-31
Pettigrew, Robert .....	Coleman .....	20	13-7-31
Reynolds, Horace C. ....	Canmore .....	11	13-7-31

## THE MINES BRANCH

## THIRD CLASS—Continued

Name	Address	Cert. No.	Date of Issue
Roberts, Simon .....	Cadomin .....	21	13-7-31
Radocy, Isaac C. ....	Aerial .....	23	13-7-31
Ratcliffe, Thomas .....	Drumheller .....	24	13-7-31
Robertson, Duncan .....	Drumheller .....	47	26-7-31
Stene, Alexander .....	Cadomin .....	10	13-7-31
Stanko, Martin .....	Drumheller .....	13	13-7-31
Smith, John A. ....	Cadomin .....	31	13-7-31
Simons, B. C. ....	Bellevue .....	36	26-7-31
Thirlwell, Wm. ....	Robb .....	4	20-2-31
Tyrer, Edward .....	Lethbridge .....	5	13-7-31
Thomas, William .....	Luscar .....	38	26-7-31
Vivyrka, John .....	Mercoal .....	44	26-7-31
Williams, Walter .....	Alix .....	29	13-7-31
Walsh, James C. ....	Bellevue .....	34	13-7-31
Williams, D. J. ....	Mountain Park .....	35	13-7-31

## MINE SURVEYOR

McMullen, Arthur .....	Nordegg .....	1	26-7-31
------------------------	---------------	---	---------

The following person passed the examination during 1930, but the certificate was not issued until 1931:

Gilmour, John .....	Drumheller .....	222	9-2-31
---------------------	------------------	-----	--------



